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Texas Occupational Employment Statistics

Industry Staffing Patterns

Hospitals

TEXAS EMPLOYMENT COMMISSION
In cooperation with the U.S. Department of Labor
Bureau of Labor Statistics
Issued May 1991

02500-020

TEXAS OCCUPATIONAL EMPLOYMENT STATISTICS

INDUSTRY STAFFING PATTERNS
FOR HOSPITALS

APRIL 1989

Prepared by
Texas Employment Commission
Economic Research and Analysis
TEC Building
Austin, Texas 78778

Issued May 1991

PREFACE

This publication summarizes the results of an occupational employment survey of hospitals in Texas.

This report is the product of a Federal-State Cooperative Program. The Bureau of Labor Statistics (BLS) developed the procedures and provided technical assistance. The Department of Labor through BLS funded the project and was responsible for the administrative aspects of the program. The Texas Employment Commission collected and analyzed the data, provided the necessary computer services, and published the findings.

Special thanks are extended to the many cooperating employers who provided the survey data which made this publication possible.

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INTRODUCTION

The Occupational Employment Statistics (OES) Program is an ongoing Federal-State Cooperative Program that produces current estimates of industry staffing patterns by occupation through periodic surveys of the nonfarm wage and salary sector of the Texas economy. It consists of three parts: the OES survey, the industry-occupation matrix, and projections. This publication presents the results of the survey phase.

The program's primary purpose is to collect and summarize current occupational data by industry which will be used to measure and define occupational needs and trends. The data will also be used to refine and modify the worker-demand projections generated through the Industry-Occupation Matrix. The OES program has continued to expand and develop in order to meet the changing needs of data users, such as companies considering new plant locations, business firms involved in research projects, vocational education groups developing curricula, as well as Private Industry Councils, job-seekers, guidance counselors, community leaders, chambers of commerce, students, etc.

Occupational staffing patterns are presented for hospitals. Data was provided by Texas employers for the survey week of April 12, 1989.

This publication and other industry publications will be updated at three-year intervals to provide a better basis for decision-making at all levels of human resource planning and development. Other publications providing industry and occupational data are available from the Texas Employment Commission upon request.

METHODOLOGY

THE SAMPLE

The Unemployment Insurance (ES-202) hospital universe file was used. This survey included private, State Government, and Local Government hospitals. Excluded were Federal Government and prison hospitals.

COLLECTION PROCEDURES

The majority of the data was collected by mail. Each hospital received a structured schedule for their specific industry. The survey form includes instructions, occupational titles and definitions, establishment identification, and a three-digit SIC description. An open-end feature allows respondents to report occupations not listed or new emerging occupations.

Survey procedures included three follow-up mailings to nonrespondents. The telephone was used extensively to clarify data and to canvass critical nonrespondents.

SAMPLING ERROR

There was no sampling error because universe employment was used.

NONSAMPLING ERROR

Nonsampling error results from several aspects of the survey process, such as respondent error, processing errors, questionnaire design, etc. It cannot be measured with reasonable precision, therefore, survey procedures and estimating processes have been designed to minimize it.

CONSIDERATIONS IN USING THE ESTIMATES

ROUNDING AND OCCUPATIONS WITH LESS THAN TEN EMPLOYMENT

All estimates were rounded to the nearest ten (10). The percent distribution column may not add up to one hundred percent (100%) because of the computer rounding procedure.

Occupations with employment less than ten (10) were combined with a relevant "all other" category. "N.A." means not applicable.

The employment count reflects the number of jobs and not the number of persons holding jobs.

INDUSTRY CHARACTERISTICS

SIC 806 - HOSPITALS

This industry group includes establishments primarily engaged in providing diagnostic services, extensive medical treatment including surgical services, and other hospital services, as well as continuous nursing services. These establishments have an organized medical staff, inpatient beds, and equipment and facilities to provide complete health care.

SIC 806 HOSPITALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	246,510	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	11,180	4.49	N.A.	N.A.
FINANCIAL MANAGERS	600	0.24	1.99	71.50
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	500	0.20	2.47	55.41
PURCHASING MANAGERS	380	0.15	2.51	55.15
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	450	0.18	3.02	49.87
ADMINISTRATIVE SERVICES MANAGERS	290	0.11	8.23	26.12
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	260	0.10	4.12	26.91
MEDICAL AND HEALTH SERVICES MANAGERS	3,410	1.38	2.90	86.28
FOOD SERVICE AND LODGING MANAGERS	580	0.23	2.86	64.38
GENERAL MANAGERS AND TOP EXECUTIVES	1,450	0.58	3.06	87.34
ALL OTHER MANAGERS AND ADMINISTRATORS	3,260	1.32	3.67	49.08
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	133,640	53.88	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	880	0.34	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	610	0.24	3.23	37.20
BUDGET ANALYSTS	90	0.03	6.18	11.08
ALL OTHER FINANCIAL SPECIALISTS	180	0.07	7.23	12.93
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	380	0.15	3.28	41.16
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	360	0.14	4.09	30.61
COMPLIANCE OFFICERS AND ENFORCEMENT INSPECTORS-EXCEPT CONSTRUCTION	120	0.04	8.79	10.03
ALL OTHER MANAGEMENT SUPPORT WORKERS	1,290	0.52	7.03	22.16
ENGINEERS	370	0.13	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	30	0.01	15.67	2.37
COMPUTER ENGINEERS	40	0.01	17.06	2.90
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	30	0.01	14.37	3.17
MECHANICAL ENGINEERS	100	0.04	13.94	7.65
ALL OTHER ENGINEERS	170	0.06	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	210	0.07	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	90	0.03	13.58	2.90
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	120	0.04	N.A.	N.A.
LIFE SCIENTISTS	310	0.12	N.A.	N.A.
BIOLOGICAL SCIENTISTS	150	0.06	14.97	4.22
MEDICAL SCIENTISTS	110	0.04	19.24	3.17
ALL OTHER LIFE SCIENTISTS	50	0.02	34.76	0.79
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	130	0.04	N.A.	N.A.

SIC 806 HOSPITALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	50	0.02	37.52	0.79
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	40	0.01	35.91	0.53
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.01	30.15	1.32
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	910	0.35	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	360	0.14	6.83	13.72
COMPUTER PROGRAMMERS	290	0.11	5.50	13.98
COMPUTER PROGRAMMER AIDES	160	0.06	8.94	10.55
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	100	0.04	19.23	2.90
SOCIAL SCIENTISTS-INCLUDING URBAN AND REGIONAL PLANNERS	350	0.13	N.A.	N.A.
PSYCHOLOGISTS	320	0.12	10.01	13.46
ALL OTHER SOCIAL SCIENTISTS	30	0.01	31.27	1.58
SOCIAL WORKERS-MEDICAL AND PSYCHIATRIC	2,320	0.94	5.23	46.97
SOCIAL WORKERS-EXCEPT MEDICAL AND PSYCHIATRIC	240	0.09	12.61	13.72
SOCIAL SERVICE TECHNICIANS	220	0.08	13.69	11.35
RELIGIOUS OCCUPATIONS	290	0.11	N.A.	N.A.
CLERGY	290	0.11	4.24	19.79
TEACHERS-COLLEGE, JUNIOR COLLEGE, UNIVERSITY, PROFESSIONAL SCHOOL, AND TECHNICAL INSTITUTE	690	0.27	N.A.	N.A.
NURSING INSTRUCTORS-POSTSECONDARY	690	0.27	13.18	15.57
TEACHERS AND INSTRUCTORS-VOCATIONAL EDUCATION AND TRAINING	240	0.09	15.24	7.65
ALL OTHER TEACHERS AND INSTRUCTORS	640	0.25	9.77	10.55
ALL OTHER LIBRARIANS, ARCHIVISTS, CURATORS, AND OTHER SELECTED EDUCATION RELATED WORKERS	50	0.02	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	122,260	49.46	N.A.	N.A.
PHYSICIANS AND SURGEONS	600	0.24	13.46	11.08
DENTISTS	60	0.02	25.26	3.17
RESPIRATORY THERAPISTS	3,230	1.31	2.78	62.01
OCCUPATIONAL THERAPISTS	730	0.29	5.38	25.33
PHYSICAL THERAPISTS	1,290	0.52	3.40	46.17
SPEECH PATHOLOGISTS AND AUDIOLOGISTS	310	0.12	8.17	11.87
RECREATIONAL THERAPISTS	370	0.15	7.91	21.64
ALL OTHER THERAPISTS	670	0.27	N.A.	N.A.
REGISTERED NURSES	53,090	21.53	0.77	97.10
LICENSED PRACTICAL NURSES	28,680	11.63	1.83	95.25
EMERGENCY MEDICAL TECHNICIANS	1,010	0.40	7.23	19.26
PHYSICIAN ASSISTANTS	180	0.07	15.16	5.80
PHARMACISTS	2,700	1.09	2.07	58.84

SIC 806 HOSPITALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
DIETITIANS AND NUTRITIONISTS	760	0.30	2.90	49.87
DIETETIC TECHNICIANS	590	0.23	6.45	35.09
MEDICAL AND CLINICAL LABORATORY TECHNOLOGISTS	5,300	2.14	1.98	72.30
MEDICAL AND CLINICAL LABORATORY TECHNICIANS	3,330	1.35	3.57	65.44
MEDICAL RECORDS TECHNICIANS AND TECHNOLOGISTS	1,330	0.53	3.34	66.23
NUCLEAR MEDICINE TECHNOLOGISTS	470	0.19	7.14	30.08
RADIOLOGIC TECHNOLOGISTS	2,230	0.90	3.19	53.30
RADIOLOGIC TECHNICIANS	2,070	0.83	3.91	62.01
ELECTROENCEPHALOGRAPH TECHNICIANS AND TECHNOLOGISTS	260	0.10	5.93	19.53
CARDIOLOGY TECHNOLOGISTS	660	0.26	5.02	23.48
ELECTROCARDIOGRAPH TECHNICIANS AND TECHNOLOGISTS	530	0.21	4.17	26.91
SURGICAL TECHNICIANS AND TECHNOLOGISTS	2,170	0.88	3.67	46.97
PSYCHIATRIC TECHNICIANS	2,980	1.20	8.95	16.89
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	6,660	2.70	N.A.	N.A.
PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS	210	0.08	6.08	20.84
PHOTOGRAPHERS	70	0.02	10.94	4.75
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	1,100	0.44	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	960	0.38	N.A.	N.A.
CASHIERS	830	0.33	2.75	45.38
ALL OTHER SALES AND RELATED WORKERS	130	0.05	11.37	7.12
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	41,180	16.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,620	1.06	2.00	75.73
ADJUSTMENT CLERKS	420	0.17	7.65	20.84
MEDICAL SECRETARIES	1,710	0.69	5.66	46.17
SECRETARIES-EXCEPT LEGAL AND MEDICAL	5,080	2.06	3.28	60.16
STENOGRAPHERS	80	0.03	12.89	5.01
RECEPTIONISTS AND INFORMATION CLERKS	1,670	0.67	6.55	41.42
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	2,710	1.09	8.31	61.48
TYPISTS-WORD PROCESSING EQUIPMENT	240	0.09	10.33	12.40
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	340	0.13	3.60	30.34
FILE CLERKS	890	0.36	5.98	28.50
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	180	0.07	7.39	14.51
PROCUREMENT CLERKS	270	0.10	4.89	25.07
STATISTICAL CLERKS	1,190	0.48	4.25	38.52
INTERVIEWING CLERKS-EXCEPT PERSONNEL AND SOCIAL WELFARE	2,540	1.03	2.94	46.97
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	1,520	0.61	5.51	65.44
PAYROLL AND TIMEKEEPING CLERKS	390	0.15	3.16	48.02

SIC 806 HOSPITALS
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BILLING, COST AND RATE CLERKS	2,140	0.86	3.07	67.28
GENERAL OFFICE CLERKS	8,110	3.28	2.76	73.09
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	1,750	0.69	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	150	0.06	9.81	11.87
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	610	0.24	3.71	31.13
DATA ENTRY KEYERS-EXCEPT COMPOSING	870	0.35	3.90	40.63
ALL OTHER OFFICE MACHINE OPERATORS	120	0.04	9.21	9.23
SWITCHBOARD OPERATORS	1,880	0.76	1.74	72.30
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	2,530	1.01	N.A.	N.A.
DISPATCHERS-POLICE, FIRE, AND AMBULANCE	160	0.06	9.14	4.75
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	1,690	0.68	4.74	46.44
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	280	0.11	4.92	21.11
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	400	0.16	7.32	12.93
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	2,920	1.18	4.26	40.11
SERVICE OCCUPATIONS	52,000	20.97	N.A.	N.A.
HOUSEKEEPERS	1,430	0.58	3.95	76.52
ALL OTHER SERVICE SUPERVISORS AND MANAGER/SUPERVISORS	850	0.34	2.93	43.01
GUARDS AND WATCH GUARDS	1,720	0.69	3.53	30.61
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	9,550	3.83	N.A.	N.A.
WAITERS AND WAITRESSES	30	0.01	23.81	1.58
FOOD SERVERS-OUTSIDE	1,480	0.60	5.63	27.44
DINING ROOM AND CAFETERIA ATTENDANTS, AND BARTENDER HELPERS	430	0.17	9.38	14.25
COUNTER ATTENDANTS-LUNCHROOM, COFFEE SHOP, AND CAFETERIA	210	0.08	8.68	8.97
BAKERS-BREAD AND PASTRY	160	0.06	5.79	14.78
COOKS-INSTITUTION AND CAFETERIA	2,310	0.93	1.69	85.22
COOKS-SHORT ORDER	100	0.04	10.30	6.60
FOOD PREPARATION WORKERS	3,550	1.43	3.13	62.27
ALL OTHER FOOD SERVICE WORKERS	1,280	0.51	5.15	28.50
HEALTH SERVICE AND RELATED OCCUPATIONS	27,570	11.15	N.A.	N.A.
DENTAL ASSISTANTS	50	0.02	9.86	5.28
MEDICAL ASSISTANTS	370	0.15	11.04	6.60
NURSING AIDES, ORDERLIES, AND ATTENDANTS	15,340	6.22	3.22	82.06
HOME HEALTH AIDES	1,140	0.46	12.74	16.09
PSYCHIATRIC AIDES	4,360	1.76	11.84	9.76
PHYSICAL AND CORRECTIVE THERAPY ASSISTANTS AND AIDES	860	0.34	4.10	31.13
OCCUPATIONAL THERAPY ASSISTANTS AND AIDES	250	0.10	9.44	12.66
AMBULANCE DRIVERS AND ATTENDANTS-EXCEPT EMERGENCY MEDICAL TECHNICIANS	250	0.10	14.82	4.75

SIC 806 HOSPITALS
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHARMACY ASSISTANTS	1,940	0.78	3.46	53.30
ALL OTHER HEALTH SERVICE WORKERS	3,010	1.22	4.40	36.15
MAIDS AND HOUSEKEEPING CLEANERS	8,110	3.28	1.90	79.95
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	2,030	0.82	4.24	52.24
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	340	0.13	10.96	8.44
SOCIAL WELFARE SERVICE AIDES	120	0.04	34.94	2.37
CHILD CARE WORKERS	200	0.08	13.69	3.69
ALL OTHER SERVICE WORKERS	80	0.03	13.00	4.49
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	560	0.21	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70	0.02	13.56	8.18
GARDENERS AND GROUNDSKEEPERS-EXCEPT FARM	410	0.16	4.96	31.66
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	80	0.03	33.26	1.06
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,990	2.70	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	590	0.23	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	300	0.12	4.07	26.39
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	290	0.11	4.21	25.59
MECHANICS, INSTALLERS, AND REPAIRERS	2,830	1.12	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	360	0.14	5.66	15.04
MAINTENANCE REPAIRERS-GENERAL UTILITY	1,640	0.66	3.03	70.45
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	200	0.08	6.22	14.25
ELECTROMEDICAL AND BIOMEDICAL EQUIPMENT REPAIRERS	390	0.15	4.98	20.84
MENDERS-GARMENTS, LINENS, AND RELATED	30	0.01	10.15	5.28
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	210	0.08	6.50	10.55
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	890	0.33	N.A.	N.A.
CARPENTERS	270	0.10	4.86	16.36
ELECTRICIANS	270	0.10	4.08	18.47
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	230	0.09	4.82	17.15
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	120	0.04	5.10	12.14
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	70	0.02	11.51	3.96
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	1,120	0.44	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
LAUNDRY AND DRYCLEANING MACHINE OPERATORS AND TENDERS-EXCEPT PRESSING	1,060	0.42	4.71	25.59
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	60	0.02	15.30	2.37
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	180	0.06	N.A.	N.A.
BOILER OPERATORS AND TENDERS-LOW PRESSURE	90	0.03	9.83	5.54
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	90	0.03	25.50	2.64
PLANT AND SYSTEM OCCUPATIONS	290	0.11	N.A.	N.A.
STATIONARY ENGINEERS	180	0.07	8.00	7.12
ALL OTHER PLANT AND SYSTEM OPERATORS	110	0.04	12.85	3.96
MOTOR VEHICLE OPERATORS	420	0.16	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	320	0.12	7.36	13.98
ALL OTHER MOTOR VEHICLE OPERATORS	100	0.04	15.18	5.28
PARKING LOT ATTENDANTS	160	0.06	12.48	3.96
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	380	0.15	8.69	7.92
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.02	N.A.	N.A.

GLOSSARY OF TERMS

ES-202, Quarterly Report of Employment and Wages: A listing of all employing units, within the state, covered under the Unemployment Insurance Law.

Establishment: An economic unit which produces goods or services. In most instances, each establishment is a single physical location and is engaged in one predominate type of economic activity for which an industry code is applicable. Establishments are also referred to as reporting units.

Standard Industrial Classification (SIC): The SIC is the classification of establishments by type of economic activity in which engaged. It is a classification of establishment, rather than legal entities or enterprises by kinds of business, and not by occupations or commodities. It encompasses all economic activity.

Universe: Total establishments or units covered under the ES-202 Quarterly Report of Employment and Wages.

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Texas Occupational Employment Statistics

Industry Staffing Patterns

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Selected Manufacturing Industries

TEXAS EMPLOYMENT COMMISSION
In cooperation with the U.S. Department of Labor
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TEXAS OCCUPATIONAL EMPLOYMENT STATISTICS

INDUSTRY STAFFING PATTERNS FOR SELECTED MANUFACTURING INDUSTRIES

2nd QUARTER 1989

Prepared by
Texas Employment Commission
Economic Research and Analysis
TEC Building
Austin, Texas 78778

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PREFACE

This publication summarizes the results of an occupational employment survey of selected manufacturing industries in Texas.

This report is the product of a Federal-State Cooperative Program. The Bureau of Labor Statistics (BLS) developed the procedures and provided technical assistance. The Department of Labor through BLS funded the project and was responsible for the administrative aspects of the program. The Texas Employment Commission collected and analyzed the data, provided the necessary computer services, and published the findings.

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INTRODUCTION

The Occupational Employment Statistics (OES) Program is an ongoing Federal-State Cooperative Program that produces current estimates of industry staffing patterns by occupation through periodic surveys of the nonfarm wage and salary sector of the Texas economy. It consists of three parts: the OES survey, the industry-occupation matrix, and projections. This publication presents the results of the survey phase.

The program's primary purpose is to collect and summarize current occupational data by industry which will be used to measure and define occupational needs and trends. The data will also be used to refine and modify the worker-demand projections generated through the Industry-Occupation Matrix. The OES program has continued to expand and develop in order to meet the changing needs of data users, such as companies considering new plant locations, business firms involved in research projects, vocational education groups developing curricula, as well as Private Industry Councils, job-seekers, guidance counselors, community leaders, chambers of commerce, students, etc.

Occupational staffing patterns are presented for selected manufacturing industries. Data was provided by Texas employers for the appropriate reference month (April, May, or June 1989).

This publication and other industry publications will be updated at three-year intervals to provide a better basis for decision-making at all levels of human resource planning and development. Other publications providing industry and occupational data are available from the Texas Employment Commission upon request.

METHODOLOGY

THE SAMPLE

The sample for this survey was selected from the second quarter 1988 ES-202, Quarterly Report of Employment and Wages. The universe was stratified into three-digit Standard Industrial Classification (SIC) codes, each consisting of six employment size classes (1-9, 10-19, 20-49, 50-99, 100-249, and 250 plus). Procedures involved selecting all certainty cases (establishments having 250 or more employees). Firms with fewer than 250 employees were subject to sample selection on a random basis. Each unit was given a weight according to the proportion of firms selected in each size class.

COLLECTION PROCEDURES

The majority of the data was collected by mail. Each selected establishment received a structured schedule for their specific industry. The survey form includes instructions, occupational titles and definitions, establishment identification, and a three-digit SIC description. An open-end feature allows respondents to report occupations not listed or new emerging occupations.

Survey procedures included three follow-up mailings to nonrespondents. The telephone was used extensively to clarify data and to canvass critical nonrespondents.

SAMPLING ERROR

Relative standard error is presented for use in measuring sampling error. The relative standard error is an arithmetic measure of the precision of the estimates. It is the error that results from the difference between data obtained if the same survey methods were applied to collecting identical information from the entire population or universe.

SAMPLING ERROR (CONTINUED)

The relative error expresses the standard error of an estimate as a percentage of that estimate and creates an interval around the estimate. The total estimated employment multiplied by the relative error gives a figure which can be added to and subtracted from the estimate to obtain an upper and lower limit or interval. A level of confidence is then associated with this interval. It is based on the number of relative standard errors that were added to the estimate and is the probability that the interval will cover the true population value. An interval that is based on one relative error has a 68% level of confidence and one based on two relative errors has a level of 95%. For example, suppose an estimated employment of 500 and a relative error of 10% is given for an occupation. This means that with a 68% confidence level, the true number of workers in that occupation would fall between 450 and 550.

NONSAMPLING ERROR

Nonsampling error results from several aspects of the survey process, such as respondent error, processing errors, questionnaire design, etc. It cannot be measured with reasonable precision; therefore, survey procedures and estimating processes have been designed to minimize it.

ESTIMATING PROCEDURES

All establishments in a given estimating cell were assigned a sample weight which was the inverse of the sampling ratio. Employment for each occupation was multiplied by its establishment's sample weight and summed for all sample establishments in one cell. Summed total employment in each establishment was multiplied by that establishment's sample weight and summed for all establishments in the cell. Weighted total establishment employment was expressed as a percent of weighted summed establishment employment to form the ratio for the estimate.

ESTIMATING PROCEDURES (CONTINUED)

This was the arithmetic expression of the occupational pattern for the estimated cell. The benchmark figures for the appropriate survey month (April, May, or June 1989) were divided by the weighted total establishment employment. Each weighted reported occupational employment in the cell was multiplied by this ratio to get the estimated employment for each occupation. To aggregate across size classes, all these estimates were added to get one total estimate for each occupation.

CONSIDERATIONS IN USING THE ESTIMATES

RELATIVE ERROR

From an accuracy standpoint, the higher the relative error, the less accurate the estimate. If relative errors exceeded fifty percent (50%), the employment from these occupations was merged with the employment of a relevant "all other" category.

An "all other" category may not appear under a major group, but its employment is included in the total.

ROUNDING AND OCCUPATIONS WITH LESS THAN TEN EMPLOYMENT

All estimates were rounded to the nearest ten (10). The percent distribution column may not add up to one hundred percent (100%) because of the computer rounding procedure.

Occupations with employment less than ten (10) were combined with a relevant "all other" category. "N.A." means not applicable.

The employment count reflects the number of jobs and not the number of persons holding jobs.

INDUSTRY CHARACTERISTICS

SIC 20 - FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

SIC 201 - MEAT PRODUCTS

Establishments that are primarily engaged in the slaughtering of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning, cooking, curing, and freezing, and in making sausage; manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, and other prepared meats and meat specialties, from purchased carcasses and other materials are in this industry. They are also involved in slaughtering, dressing, packing, freezing, and canning poultry, rabbits, and other small game, or in manufacturing products from such meats, for their own account or on a contract basis for the trade.

SIC 202 - DAIRY PRODUCTS

This industry group includes establishments primarily engaged in manufacturing creamery butter; natural, processed, and imitation cheese; dry, condensed, and evaporated dairy products; ice cream and frozen desserts; and processing (e.g., pasteurizing, homogenizing, vitaminizing, bottling) fluid milk.

SIC 203 - CANNED, FROZEN, AND PRESERVED FRUITS, VEGETABLES, AND FOOD SPECIALTIES

This industry group includes establishments primarily engaged in canned specialties such as baby foods and soups; canned fruits, vegetables, preserves, jams, and jellies; dried and dehydrated fruits, vegetables, and soup mixes; pickled fruits and vegetables, vegetable sauces and seasonings, and salad dressings; frozen fruits, fruit juices, and vegetables; and frozen specialties, not elsewhere classified, such as frozen dinners and frozen pizza.

SIC 204 - GRAIN MILL PRODUCTS

Establishments that are primarily engaged in flour and other grain mill products; manufacturing cereal breakfast foods; rice milling; prepared flour mixes and doughs; wet corn milling; dog and cat food; and prepared feeds and feed ingredients for animals and fowls, except dogs and cats are included here.

INDUSTRY CHARACTERISTICS (CONTINUED)

SIC 205 - BAKERY PRODUCTS

Establishments that are primarily engaged in manufacturing fresh or frozen bread and bread-type rolls and fresh cakes, pies, pastries, and other similar "perishable" bakery products; fresh cookies, crackers, pretzels, and similar "dry" bakery products; and frozen bakery products, except bread and bread-type rolls are in this industry.

SIC 206 - SUGAR AND CONFECTIONERY PRODUCTS

This industry group includes establishments primarily engaged in manufacturing cane sugar, except refining; cane sugar refining; beet sugar; candy and other confectionery products; chocolate and cocoa products; chewing gum; and salted and roasted nuts and seeds.

SIC 207 - FATS AND OILS

This industry group includes establishments primarily engaged in cottonseed oil mills; soybean oil mills; vegetable oil mills, except corn, cottonseed, and soybean; animal and marine fats and oils; and shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified.

SIC 208 - BEVERAGES

Establishments that are primarily engaged in manufacturing malt beverages; malt or malt byproducts from barley or other grains; wines, brandy, and brandy spirits; distilled and blended liquors; bottled and canned soft drinks and carbonated waters; and flavoring extracts and flavoring syrups, not elsewhere classified, are in this industry.

SIC 209 - MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

This industry group includes establishments primarily engaged in canning and curing fish and seafoods; preparing fresh or frozen fish and seafoods; roasting coffee; manufacturing potato chips, corn chips, and similar snacks; ice; macaroni, spaghetti, vermicelli, and noodles; and preparing foods, not elsewhere classified, such as baking powder, yeast, and peanut butter.

SIC 20 FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	95,880	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	5,250	5.43	N.A.	N.A.
FINANCIAL MANAGERS	300	0.31	15.16	36.96
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	260	0.27	12.01	32.61
PURCHASING MANAGERS	100	0.10	11.46	19.13
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	690	0.71	16.07	28.70
ADMINISTRATIVE SERVICES MANAGERS	210	0.21	26.98	16.52
ALL OTHER ADMINISTRATIVE MANAGERS	240	0.25	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	930	0.96	11.12	56.52
GENERAL MANAGERS AND TOP EXECUTIVES	1,720	1.79	16.17	76.52
ALL OTHER MANAGERS AND ADMINISTRATORS	800	0.83	23.35	22.17
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	3,450	3.50	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	610	0.63	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	480	0.50	17.56	33.04
ALL OTHER FINANCIAL SPECIALISTS	130	0.13	21.44	7.83
PURCHASING AGENTS AND BUYERS-FARM PRODUCTS	170	0.17	24.08	15.65
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	120	0.12	15.40	17.83
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	180	0.18	17.12	18.70
COST ESTIMATORS	20	0.02	19.05	5.22
ALL OTHER MANAGEMENT SUPPORT WORKERS	310	0.32	13.93	9.57
ENGINEERS	530	0.54	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	200	0.20	5.37	15.22
MECHANICAL ENGINEERS	250	0.26	18.94	19.13
ALL OTHER ENGINEERS	80	0.08	14.02	6.09
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	270	0.27	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.04	9.81	3.48
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	60	0.06	20.94	3.04
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	170	0.17	19.25	7.39
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	60	0.06	N.A.	N.A.
PHYSICAL SCIENTISTS	210	0.21	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	100	0.10	27.86	10.87
ALL OTHER PHYSICAL SCIENTISTS	110	0.11	48.94	1.74
LIFE SCIENTISTS	60	0.06	34.08	1.30
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	250	0.25	N.A.	N.A.
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	90	0.09	18.29	6.96
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	130	0.13	21.01	9.13

SIC 20 FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	30	0.03	28.44	3.04
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	360	0.36	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	180	0.18	21.33	10.87
COMPUTER PROGRAMMERS	130	0.13	20.85	11.74
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	50	0.05	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	60	0.06	5.23	8.26
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	300	0.31	5.47	6.52
SALES AND RELATED OCCUPATIONS	4,230	4.38	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	660	0.68	31.65	26.09
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	0.06	29.53	3.04
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	1,620	1.68	20.04	34.78
SALESPERSONS-RETAIL SALES	590	0.61	44.87	6.52
ALL OTHER SALES AND RELATED WORKERS	1,300	1.35	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	8,770	9.02	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	610	0.63	14.81	39.57
ADJUSTMENT CLERKS	150	0.15	27.85	16.96
SECRETARIES	980	1.02	12.11	52.61
RECEPTIONISTS AND INFORMATION CLERKS	140	0.14	28.18	20.00
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	100	0.10	25.34	9.57
TYPISTS-WORD PROCESSING EQUIPMENT	90	0.09	23.52	7.39
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	160	0.16	11.11	26.52
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	220	0.22	18.56	20.87
PROCUREMENT CLERKS	80	0.08	19.25	13.48
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	1,220	1.27	14.06	50.00
PAYROLL AND TIMEKEEPING CLERKS	170	0.17	12.29	30.87
BILLING, COST AND RATE CLERKS	180	0.18	18.49	19.13
GENERAL OFFICE CLERKS	1,220	1.27	13.64	46.09
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	580-	0.59	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	160	0.16	13.67	18.70
DATA ENTRY KEYERS-EXCEPT COMPOSING	330	0.34	19.94	26.96
ALL OTHER OFFICE MACHINE OPERATORS	90	0.09	N.A.	N.A.
SWITCHBOARD OPERATORS	150	0.15	15.23	29.13

SIC 20 FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	2,560	2.64	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	220	0.22	12.77	19.13
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	220	0.22	23.96	12.17
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	730	0.76	19.01	27.83
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	1,360	1.41	23.55	46.96
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	30	0.03	23.56	5.65
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	160	0.16	N.A.	N.A.
SERVICE OCCUPATIONS	2,720	2.81	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	440	0.45	18.65	19.13
GUARDS AND WATCH GUARDS	310	0.32	15.81	14.78
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	1,580	1.64	17.65	44.35
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	110	0.11	40.46	8.70
ALL OTHER SERVICE WORKERS	280	0.29	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	950	0.98	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	60	0.06	25.81	6.09
GRADERS AND SORTERS-AGRICULTURAL PRODUCTS	270	0.28	38.18	6.09
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	620	0.64	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	70,510	73.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	4,250	4.41	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	560	0.58	10.95	36.52
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	2,910	3.03	7.58	67.83
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	330	0.34	17.69	23.91
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	360	0.37	36.75	16.96
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	90	0.09	40.57	5.65
PRECISION INSPECTORS, TESTERS, AND GRADERS	110	0.11	19.49	5.22
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,190	1.24	11.21	29.13

SIC 20 FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	5,620	5.80	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	2,300	2.39	10.35	47.39
MILLWRIGHTS	120	0.12	33.68	4.35
MACHINERY MAINTENANCE WORKERS	190	0.19	25.57	11.30
MAINTENANCE REPAIRERS-GENERAL UTILITY	1,780	1.85	11.86	42.17
AUTOMOTIVE MECHANICS	220	0.22	25.88	12.61
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	460	0.47	23.72	18.26
FARM EQUIPMENT MECHANICS	90	0.09	39.77	3.04
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	140	0.14	48.35	11.74
PRECISION INSTRUMENT REPAIRERS	30	0.03	20.93	3.04
COIN AND VENDING MACHINE SERVICERS AND REPAIRERS	290	0.30	19.50	3.91
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	430	0.44	N.A.	N.A.
CARPENTERS	30	0.03	28.01	3.48
ELECTRICIANS	320	0.33	10.61	16.52
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	0.06	21.69	5.65
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.02	19.81	2.61
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	60	0.06	42.22	2.61
PRECISION PRODUCTION OCCUPATIONS	8,640	8.99	N.A.	N.A.
MACHINISTS	60	0.06	11.24	5.65
ALL OTHER PRECISION METAL WORKERS	20	0.02	N.A.	N.A.
SLAUGHTERERS AND BUTCHERS	5,220	5.44	11.97	7.39
BAKERS-MANUFACTURING	1,500	1.56	38.05	7.39
ALL OTHER PRECISION FOOD AND TOBACCO WORKERS	1,820	1.89	N.A.	N.A.
ALL OTHER PRECISION WORKERS	20	0.02	34.24	0.87
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	16,300	16.93	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	1,180	1.23	28.30	16.09
ROASTING, BAKING, AND DRYING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	640	0.66	22.99	9.13
BOILER OPERATORS AND TENDERS-LOW PRESSURE	160	0.16	23.19	8.70
COOLING AND FREEZING EQUIPMENT OPERATORS AND TENDERS	470	0.49	22.62	8.70
DAIRY PROCESSING EQUIPMENT OPERATORS-INCLUDING SETTERS	540	0.56	14.14	10.00
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	930	0.96	23.02	8.70
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	540	0.56	14.88	9.57
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	450	0.46	22.67	7.83
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	1,750	1.82	20.87	30.43

SIC 20 FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	1,150	1.19	37.53	15.22
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	8,350	8.70	11.55	51.74
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	140	0.14	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	11,530	12.00	N.A.	N.A.
CANNERY OCCUPATIONS	3,430	3.57	32.18	8.26
MEAT, POULTRY, AND FISH CUTTERS AND TRIMMERS-HAND	6,120	6.38	10.29	10.87
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	130	0.13	28.15	2.17
ALL OTHER HAND WORKERS	1,850	1.92	38.16	7.39
PLANT AND SYSTEM OCCUPATIONS	100	0.10	N.A.	N.A.
STATIONARY ENGINEERS	100	0.10	24.05	3.48
MOTOR VEHICLE OPERATORS	6,520	6.79	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	2,190	2.28	13.74	40.00
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	1,190	1.24	33.79	20.87
DRIVER/SALES OCCUPATIONS	3,140	3.27	27.85	16.09
ALL OTHER TRANSPORTATION AND RELATED WORKERS	110	0.11	34.89	7.39
MATERIAL MOVING EQUIPMENT OPERATORS	2,030	2.10	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	1,600	1.66	11.82	33.04
CONVEYOR OPERATORS AND TENDERS	310	0.32	22.37	7.83
PUMP OPERATORS	80	0.08	21.45	3.91
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	40	0.04	41.91	2.61
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	12,600	13.12	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	370	0.38	14.51	9.13
MACHINE FEEDERS AND OFFBEARERS	840	0.87	34.39	10.43
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	2,420	2.52	16.53	32.61
HAND PACKERS AND PACKAGERS	4,760	4.96	23.49	27.83
VEHICLE WASHERS AND EQUIPMENT CLEANERS	470	0.49	19.14	15.65
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	3,740	3.90	14.61	27.39
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	1,020	1.06	N.A.	N.A.

SIC 201 MEAT PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	29,600	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	920	3.06	N.A.	N.A.
FINANCIAL MANAGERS	40	0.13	17.63	52.78
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.13	12.31	55.56
PURCHASING MANAGERS	20	0.06	9.42	38.89
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	50	0.16	32.37	38.89
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.10	24.98	33.33
INDUSTRIAL PRODUCTION MANAGERS	140	0.47	25.21	66.67
GENERAL MANAGERS AND TOP EXECUTIVES	360	1.21	23.72	86.11
ALL OTHER MANAGERS AND ADMINISTRATORS	230	0.77	14.42	41.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	730	2.41	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	80	0.26	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	60	0.20	35.03	33.33
ALL OTHER FINANCIAL SPECIALISTS	20	0.06	38.67	11.11
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	40	0.13	33.04	38.89
ALL OTHER MANAGEMENT SUPPORT WORKERS	170	0.57	N.A.	N.A.
ENGINEERS	50	0.16	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	30	0.10	21.08	33.33
MECHANICAL ENGINEERS	20	0.06	24.47	25.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.06	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.06	33.32	16.67
PHYSICAL SCIENTISTS	30	0.10	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	30	0.10	19.74	22.22
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	50	0.16	N.A.	N.A.
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.06	23.58	11.11
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	30	0.10	46.52	11.11
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.06	N.A.	N.A.
COMPUTER PROGRAMMERS	20	0.06	17.33	19.44
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	30	0.10	3.23	27.78
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	240	0.81	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	570	1.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	0.10	46.06	25.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	300	1.01	37.90	41.67

SIC 201 MEAT PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER SALES AND RELATED WORKERS	240	0.81	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,540	5.12	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	150	0.50	41.71	44.44
ADJUSTMENT CLERKS	40	0.13	23.60	33.33
SECRETARIES	120	0.40	20.28	58.33
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.03	9.20	19.44
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	60	0.20	10.97	47.22
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.10	17.63	27.78
PROCUREMENT CLERKS	20	0.06	34.80	27.78
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	180	0.60	25.47	55.56
PAYROLL AND TIMEKEEPING CLERKS	30	0.10	15.65	44.44
BILLING, COST AND RATE CLERKS	60	0.20	15.79	38.89
GENERAL OFFICE CLERKS	220	0.74	13.34	55.56
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	100	0.33	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.10	20.21	22.22
DATA ENTRY KEYERS-EXCEPT COMPOSING	70	0.23	39.34	41.67
SWITCHBOARD OPERATORS	40	0.13	32.10	52.78
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	380	1.27	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.06	14.46	13.89
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	60	0.20	9.00	22.22
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	60	0.20	6.51	36.11
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	240	0.81	23.47	58.33
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	0.33	N.A.	N.A.
SERVICE OCCUPATIONS	920	3.08	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	170	0.57	11.95	36.11
GUARDS AND WATCH GUARDS	200	0.67	22.84	47.22
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	20	0.06	0.00	8.33
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	520	1.75	11.60	69.44
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	10	0.03	36.68	8.33
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	600	2.01	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.06	23.45	11.11
GRADERS AND SORTERS-AGRICULTURAL PRODUCTS	10	0.03	15.57	5.56
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	24,320	81.99	N.A.	N.A.

SIC 201 MEAT PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS.........	1,090	3.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS............	80	0.27	14.18	41.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS............	930	3.14	8.87	72.22
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS...........	50	0.16	30.89	25.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND..............	30	0.10	13.14	13.89
PRECISION INSPECTORS, TESTERS, AND GRADERS...........................	40	0.13	43.04	5.56
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS............................	400	1.35	12.67	38.89
MECHANICS, INSTALLERS, AND REPAIRERS....................................	1,340	4.49	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS..	740	2.50	15.09	58.33
MACHINERY MAINTENANCE WORKERS...	50	0.16	0.00	16.67
MAINTENANCE REPAIRERS-GENERAL UTILITY...............................	390	1.31	11.55	50.00
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS..............	60	0.20	11.45	25.00
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS................................	30	0.10	N.A.	N.A.
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS................................	50	0.16	8.31	38.89
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS............................	20	0.06	32.30	8.33
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING..........................	70	0.22	N.A.	N.A.
ELECTRICIANS...	50	0.16	4.99	27.78
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE..............	20	0.06	0.00	2.78
PRECISION PRODUCTION OCCUPATIONS....................................	5,370	18.13	N.A.	N.A.
SLAUGHTERERS AND BUTCHERS..	5,220	17.63	11.97	47.22
ALL OTHER PRECISION WORKERS..	150	0.50	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC.........................	3,640	12.27	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO..............	650	2.19	42.88	38.89
ROASTING, BAKING, AND DRYING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO............................	60	0.20	49.21	5.56
COOLING AND FREEZING EQUIPMENT OPERATORS AND TENDERS................	150	0.50	1.32	19.44
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS....................	820	2.77	25.05	36.11
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS.............................	160	0.54	27.27	8.33
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS.............................	120	0.40	22.23	11.11

SIC 201 MEAT PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	1,300	4.39	22.64	41.67
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	60	0.20	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	320	1.08	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	7,330	24.75	N.A.	N.A.
MEAT, POULTRY, AND FISH CUTTERS AND TRIMMERS-HAND	6,100	20.60	10.33	63.89
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	80	0.27	46.74	8.33
ALL OTHER HAND WORKERS	1,150	3.88	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	20	0.06	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	20	0.06	6.08	8.33
MOTOR VEHICLE OPERATORS	1,030	3.47	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	560	1.89	21.87	50.00
ALL OTHER MOTOR VEHICLE OPERATORS	470	1.58	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	10	0.03	34.79	8.33
MATERIAL MOVING EQUIPMENT OPERATORS	270	0.91	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	270	0.91	14.87	44.44
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	3,650	12.31	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	130	0.43	13.89	8.33
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	780	2.63	16.97	33.33
HAND PACKERS AND PACKAGERS	1,330	4.49	22.97	41.67
VEHICLE WASHERS AND EQUIPMENT CLEANERS	160	0.54	34.02	22.22
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,250	4.22	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.20	N.A.	N.A.

SIC 202 DAIRY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,370	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	240	5.47	N.A.	N.A.
FINANCIAL MANAGERS	20	0.45	24.46	24.14
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.45	28.65	24.14
INDUSTRIAL PRODUCTION MANAGERS	60	1.37	13.95	58.62
GENERAL MANAGERS AND TOP EXECUTIVES	110	2.52	17.13	72.41
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	150	3.40	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	30	0.68	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	30	0.68	17.74	37.93
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.45	22.21	24.14
ALL OTHER MANAGEMENT SUPPORT WORKERS	20	0.45	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.45	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.45	34.28	13.79
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	1.37	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	180	4.11	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	50	1.14	28.90	31.03
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	120	2.75	21.04	48.28
ALL OTHER SALES AND RELATED WORKERS	10	0.22	43.70	10.34
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	750	17.08	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.91	30.71	31.03
ADJUSTMENT CLERKS	20	0.45	27.37	17.24
SECRETARIES	50	1.14	15.41	62.07
RECEPTIONISTS AND INFORMATION CLERKS	20	0.45	20.74	27.59
FILE CLERKS	10	0.22	36.71	13.79
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.45	37.01	17.24
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	70	1.60	12.56	51.72
PAYROLL AND TIMEKEEPING CLERKS	20	0.45	11.31	41.38
BILLING, COST AND RATE CLERKS	20	0.45	36.36	17.24
GENERAL OFFICE CLERKS	120	2.75	18.48	58.62
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	70	1.59	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.45	18.66	31.03
DATA ENTRY KEYERS-EXCEPT COMPOSING	50	1.14	16.67	37.93
SWITCHBOARD OPERATORS	20	0.45	16.61	34.48

SIC 202 DAIRY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	240	5.49	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.68	25.26	24.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	110	2.52	30.05	24.14
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	100	2.29	22.80	44.83
SERVICE OCCUPATIONS	20	0.45	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.45	22.32	31.03
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,030	69.41	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	240	5.49	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	30	0.68	17.62	34.48
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	170	3.90	11.00	75.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	40	0.91	32.54	27.59
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	30	0.68	24.05	31.03
MECHANICS, INSTALLERS, AND REPAIRERS	340	7.76	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	120	2.75	10.63	48.28
MAINTENANCE REPAIRERS-GENERAL UTILITY	100	2.29	19.78	48.28
AUTOMOTIVE MECHANICS	60	1.37	21.10	31.03
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	30	0.68	34.38	20.69
FARM EQUIPMENT MECHANICS	10	0.22	46.96	10.34
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.45	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	100	2.29	N.A.	N.A.
FOOD BATCHMAKERS	100	2.29	41.92	24.14
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,160	26.62	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	10	0.22	47.75	6.90
COOLING AND FREEZING EQUIPMENT OPERATORS AND TENDERS	130	2.98	14.94	13.79
DAIRY PROCESSING EQUIPMENT OPERATORS-INCLUDING SETTERS	530	12.18	14.37	72.41
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	20	0.45	37.92	13.79
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	420	9.65	14.33	51.72
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	50	1.14	N.A.	N.A.
MOTOR VEHICLE OPERATORS	610	14.00	N.A.	N.A.

SIC 202 DAIRY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	150	3.44	19.96	44.83
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	40	0.91	26.24	20.69
DRIVER/SALES OCCUPATIONS	420	9.65	21.66	37.93
ALL OTHER TRANSPORTATION AND RELATED WORKERS	20	0.45	47.24	13.79
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.68	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	0.68	32.14	17.24
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	460	10.53	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	20	0.45	47.09	10.34
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	2.29	23.66	31.03
HAND PACKERS AND PACKAGERS	90	2.06	39.32	20.69
VEHICLE WASHERS AND EQUIPMENT CLEANERS	50	1.14	24.10	27.59
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	200	4.59	21.54	24.14

SIC 203 PRESERVED FRUITS & VEGETABLES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	10,320	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	360	3.44	N.A.	N.A.
FINANCIAL MANAGERS	20	0.19	33.69	33.33
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.19	24.84	38.10
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.38	49.23	19.05
ALL OTHER ADMINISTRATIVE MANAGERS	90	0.86	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	70	0.67	22.64	57.14
GENERAL MANAGERS AND TOP EXECUTIVES	100	0.96	19.23	80.95
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.19	29.03	14.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	270	2.54	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	30	0.28	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	30	0.28	19.25	38.10
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.09	30.15	19.05
ENGINEERS	40	0.37	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.09	35.98	19.05
MECHANICAL ENGINEERS	30	0.28	49.03	23.81
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.09	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.09	18.27	9.52
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	100	0.96	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	10	0.09	N.A.	N.A.
COMPUTER PROGRAMMERS	10	0.09	24.57	14.29
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.09	17.52	14.29
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	0.57	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	0.28	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.19	47.41	14.29
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	570	5.43	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.38	27.01	28.57
SECRETARIES	60	0.57	24.94	57.14
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.09	47.64	9.52
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.19	36.19	28.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	0.48	23.37	42.86
PAYROLL AND TIMEKEEPING CLERKS	20	0.19	28.04	33.33
BILLING, COST AND RATE CLERKS	20	0.19	48.42	23.81

SIC 203 PRESERVED FRUITS & VEGETABLES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GENERAL OFFICE CLERKS	60	0.57	27.75	42.86
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.19	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.19	26.35	33.33
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	160	1.52	N.A.	N.A.
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	30	0.28	15.59	19.05
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	70	0.67	30.16	42.86
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	0.57	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	110	1.06	N.A.	N.A.
SERVICE OCCUPATIONS	210	2.02	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.19	35.26	14.29
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	140	1.35	33.14	38.10
ALL OTHER SERVICE WORKERS	50	0.48	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	90	0.86	N.A.	N.A.
GRADERS AND SORTERS-AGRICULTURAL PRODUCTS	80	0.77	48.67	19.05
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	10	0.09	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	8,790	84.77	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	500	4.81	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	80	0.77	17.55	57.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	300	2.89	27.13	80.95
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.19	42.13	33.33
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	100	0.96	37.87	23.81
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	200	1.93	22.07	47.62
MECHANICS, INSTALLERS, AND REPAIRERS	660	6.36	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	250	2.41	23.44	57.14
MAINTENANCE REPAIRERS-GENERAL UTILITY	370	3.57	29.96	47.62
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	40	0.38	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	100	0.96	N.A.	N.A.

SIC 203 PRESERVED FRUITS & VEGETABLES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	100	0.96	24.13	28.57
PRECISION PRODUCTION OCCUPATIONS	120	1.15	N.A.	N.A.
MACHINISTS	20	0.19	10.00	14.29
FOOD BATCHMAKERS	100	0.96	44.52	19.05
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,580	15.23	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	230	2.22	24.70	33.33
BOILER OPERATORS AND TENDERS-LOW PRESSURE	40	0.38	46.04	23.81
COOLING AND FREEZING EQUIPMENT OPERATORS AND TENDERS	70	0.67	49.33	28.57
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	100	0.96	25.08	19.05
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	160	1.54	12.14	23.81
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	980	9.46	27.62	71.43
OTHER HANDWORKING OCCUPATIONS	2,650	25.59	N.A.	N.A.
CANNERY OCCUPATIONS	2,620	25.31	31.30	52.38
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	30	0.28	0.00	4.76
PLANT AND SYSTEM OCCUPATIONS	30	0.28	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	30	0.28	0.00	4.76
MOTOR VEHICLE OPERATORS	230	2.21	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	190	1.83	32.06	38.10
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	40	0.38	47.91	23.81
MATERIAL MOVING EQUIPMENT OPERATORS	360	3.47	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	360	3.47	28.60	47.62
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,250	12.06	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	120	1.15	26.29	33.33
HAND PACKERS AND PACKAGERS	460	4.44	46.37	33.33
VEHICLE WASHERS AND EQUIPMENT CLEANERS	110	1.06	39.55	23.81
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	560	5.41	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	1,110	10.72	N.A.	N.A.

SIC 204 GRAIN MILL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	6,660	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	560	8.46	N.A.	N.A.
FINANCIAL MANAGERS	30	0.45	16.07	23.68
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.30	16.40	18.42
PURCHASING MANAGERS	10	0.15	24.94	13.16
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	70	1.06	24.50	21.05
ADMINISTRATIVE SERVICES MANAGERS	30	0.45	37.85	21.05
INDUSTRIAL PRODUCTION MANAGERS	130	1.96	13.83	57.89
GENERAL MANAGERS AND TOP EXECUTIVES	200	3.03	10.83	84.21
ALL OTHER MANAGERS AND ADMINISTRATORS	70	1.06	21.00	18.42
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	310	4.65	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	0.60	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.60	22.91	39.47
PURCHASING AGENTS AND BUYERS-FARM PRODUCTS	60	0.90	20.85	34.21
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.30	28.80	15.79
ENGINEERS	30	0.45	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.15	25.90	13.16
MECHANICAL ENGINEERS	20	0.30	25.83	15.79
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.45	N.A.	N.A.
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.30	40.94	2.63
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.15	40.95	2.63
PHYSICAL SCIENTISTS	30	0.45	N.A.	N.A.
ALL OTHER PHYSICAL SCIENTISTS	30	0.45	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	60	0.90	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	60	0.90	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	280	4.22	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	50	0.75	27.68	26.32
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.60	39.19	10.53
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	180	2.72	20.24	39.47
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	710	10.69	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.90	20.41	34.21

SIC 204 GRAIN MILL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ADJUSTMENT CLERKS	20	0.30	29.30	15.79
SECRETARIES	90	1.36	22.69	44.74
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	60	0.90	23.38	28.95
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	140	2.12	13.62	57.89
PAYROLL AND TIMEKEEPING CLERKS	10	0.15	18.63	21.05
BILLING, COST AND RATE CLERKS	20	0.30	16.21	15.79
GENERAL OFFICE CLERKS	60	0.90	18.02	28.95
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.30	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.30	35.59	15.79
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	170	2.56	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	0.60	19.61	18.42
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	30	0.45	26.29	15.79
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.45	36.93	15.79
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	70	1.06	20.91	31.58
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	0.90	N.A.	N.A.
SERVICE OCCUPATIONS	240	3.63	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.30	27.96	7.89
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	150	2.27	20.07	39.47
ALL OTHER SERVICE WORKERS	70	1.06	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	80	1.20	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.15	40.35	10.53
GRADERS AND SORTERS-AGRICULTURAL PRODUCTS	50	0.75	29.16	13.16
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,480	67.74	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	260	3.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSIALLERS, AND REPAIRERS	40	0.60	17.91	26.32
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	170	2.57	12.20	63.16
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	10	0.15	21.65	18.42
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	0.60	26.81	15.79
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	50	0.75	23.93	18.42

SIC 204 GRAIN MILL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	390	5.89	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	150	2.27	15.48	34.21
MILLWRIGHTS	20	0.30	37.79	5.26
MACHINERY MAINTENANCE WORKERS	20	0.30	36.98	7.89
MAINTENANCE REPAIRERS-GENERAL UTILITY	180	2.72	15.20	50.00
AUTOMOTIVE MECHANICS	20	0.30	34.39	5.26
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.15	N.A.	N.A.
ELECTRICIANS	10	0.15	31.15	10.53
PRECISION PRODUCTION OCCUPATIONS	70	1.06	N.A.	N.A.
ALL OTHER PRECISION FOOD AND TOBACCO WORKERS	70	1.06	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,510	22.84	N.A.	N.A.
ROASTING, BAKING, AND DRYING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	100	1.51	42.29	13.16
BOILER OPERATORS AND TENDERS-LOW PRESSURE	50	0.75	34.55	10.53
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	70	1.06	30.27	10.53
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	520	7.87	17.76	73.68
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	20	0.30	39.97	5.26
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	130	1.96	18.33	31.58
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	540	8.18	13.06	50.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	80	1.21	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	210	3.18	N.A.	N.A.
ALL OTHER HAND WORKERS	210	3.18	44.66	2.63
MOTOR VEHICLE OPERATORS	460	6.96	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	380	5.75	13.62	55.26
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	80	1.21	44.58	13.16
MATERIAL MOVING EQUIPMENT OPERATORS	310	4.69	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	240	3.63	16.00	44.74
CONVEYOR OPERATORS AND TENDERS	70	1.06	25.74	15.79
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,150	17.40	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	40	0.60	22.81	7.89
MACHINE FEEDERS AND OFFBEARERS	160	2.42	28.50	18.42
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	490	7.42	17.73	55.26
HAND PACKERS AND PACKAGERS	190	2.87	30.47	21.05

SIC 204 GRAIN MILL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	270	4.09	22.03	23.68
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.90	N.A.	N.A.

SIC 205 BAKERY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	9,830	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	410	4.14	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	140	1.41	N.A.	N.A.
ALL OTHER SUPPORT SERVICES MANAGERS	80	0.81	N.A.	N.A.
ALL OTHER MANAGERS AND ADMINISTRATORS	190	1.92	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	120	1.21	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.81	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.81	32.84	9.52
SALES AND RELATED OCCUPATIONS	740	7.50	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	740	7.50	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	860	8.71	N.A.	N.A.
PAYROLL AND TIMEKEEPING CLERKS	20	0.20	45.34	38.10
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	0.81	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	80	0.81	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	20	0.20	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	300	3.04	N.A.	N.A.
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	300	3.04	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	440	4.46	N.A.	N.A.
SERVICE OCCUPATIONS	720	7.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	110	1.11	32.14	42.86
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	440	4.46	38.93	57.14
ALL OTHER SERVICE WORKERS	170	1.72	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,980	70.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	440	4.45	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	280	2.83	32.75	66.67
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	160	1.62	N.A.	N.A.
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.10	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	580	5.86	N.A.	N.A.

SIC 205 BAKERY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MILLWRIGHTS	70	0.70	32.92	4.76
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	140	1.41	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	370	3.75	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.10	N.A.	N.A.
ELECTRICIANS	10	0.10	34.33	4.76
PRECISION PRODUCTION OCCUPATIONS	1,450	14.70	N.A.	N.A.
BAKERS-MANUFACTURING	1,270	12.88	43.44	61.90
ALL OTHER PRECISION WORKERS	180	1.82	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,320	13.38	N.A.	N.A.
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	180	1.82	40.06	14.29
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	1,140	11.56	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	40	0.40	N.A.	N.A.
ALL OTHER HAND WORKERS	40	0.40	N.A.	N.A.
MOTOR VEHICLE OPERATORS	1,340	13.59	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	1,340	13.59	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,730	17.53	N.A.	N.A.
VEHICLE WASHERS AND EQUIPMENT CLEANERS	60	0.60	32.55	14.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,670	16.93	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.60	N.A.	N.A.

SIC 206 SUGAR AND CONFECTIONERY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,160	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	140	4.39	N.A.	N.A.
FINANCIAL MANAGERS	10	0.31	10.78	33.33
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.31	14.37	20.00
INDUSTRIAL PRODUCTION MANAGERS	40	1.26	15.74	46.67
GENERAL MANAGERS AND TOP EXECUTIVES	30	0.94	18.21	60.00
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.63	20.25	26.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	150	4.70	N.A.	N.A.
ENGINEERS	30	0.93	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.31	14.18	20.00
MECHANICAL ENGINEERS	10	0.31	0.00	13.33
ALL OTHER ENGINEERS	10	0.31	21.31	20.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.94	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.31	0.00	6.67
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.63	25.19	20.00
PHYSICAL SCIENTISTS	10	0.31	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	10	0.31	24.37	20.00
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.63	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.63	34.61	20.00
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	1.89	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	100	3.15	N.A.	N.A.
SALESPERSONS-RETAIL SALES	40	1.26	44.38	20.00
ALL OTHER SALES AND RELATED WORKERS	60	1.89	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	260	8.17	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30	0.94	14.73	40.00
SECRETARIES	30	0.94	14.90	40.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.94	27.28	53.33
GENERAL OFFICE CLERKS	30	0.94	15.50	46.67
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	60	1.88	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.94	24.61	20.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	0.94	16.11	46.67
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	2.53	N.A.	N.A.
SERVICE OCCUPATIONS	60	1.88	N.A.	N.A.

SIC 206 SUGAR AND CONFECTIONERY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.94	23.40	46.67
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.63	N.A.	N.A.
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	20	0.63	46.09	6.67
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,430	76.74	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	90	2.83	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.63	27.23	20.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	1.89	12.35	46.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	10	0.31	14.18	13.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	0.63	42.61	20.00
MECHANICS, INSTALLERS, AND REPAIRERS	300	9.46	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	150	4.74	2.57	40.00
MACHINERY MAINTENANCE WORKERS	20	0.63	37.37	20.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.31	31.12	46.67
AUTOMOTIVE MECHANICS	20	0.63	36.92	13.33
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	30	0.94	44.66	13.33
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	70	2.21	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.94	N.A.	N.A.
CARPENTERS	20	0.63	46.15	13.33
ELECTRICIANS	10	0.31	8.38	13.33
PRECISION PRODUCTION OCCUPATIONS	640	20.25	N.A.	N.A.
MACHINISTS	20	0.63	27.09	20.00
FOOD BATCHMAKERS	620	19.62	26.14	60.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	730	23.06	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	30	0.94	23.95	20.00
ROASTING, BAKING, AND DRYING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	30	0.94	42.67	26.67
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	40	1.26	35.92	20.00
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	50	1.58	49.11	26.67

SIC 206 SUGAR AND CONFECTIONERY PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	480	15.18	20.03	46.67
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	100	3.16	0.00	6.67
OTHER HANDWORKING OCCUPATIONS	60	1.89	N.A.	N.A.
ALL OTHER HAND WORKERS	60	1.89	43.32	13.33
PLANT AND SYSTEM OCCUPATIONS	20	0.63	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	20	0.63	8.01	20.00
MOTOR VEHICLE OPERATORS	60	1.88	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.63	22.79	13.33
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.31	13.96	13.33
DRIVER/SALES OCCUPATIONS	30	0.94	8.43	13.33
MATERIAL MOVING EQUIPMENT OPERATORS	50	1.58	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	50	1.58	0.00	6.67
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	390	12.33	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	1.26	10.83	33.33
HAND PACKERS AND PACKAGERS	140	4.43	42.30	26.67
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	210	6.64	0.00	13.33

SIC 207 FATS AND OILS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,970	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	190	6.36	N.A.	N.A.
FINANCIAL MANAGERS	10	0.33	17.42	35.00
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.33	29.44	15.00
ADMINISTRATIVE SERVICES MANAGERS	20	0.67	28.00	20.00
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.67	27.71	30.00
INDUSTRIAL PRODUCTION MANAGERS	40	1.34	24.11	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	70	2.35	16.67	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	130	4.34	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.33	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.33	36.78	25.00
PURCHASING AGENTS AND BUYERS-FARM PRODUCTS	10	0.33	28.29	25.00
ENGINEERS	20	0.67	N.A.	N.A.
ALL OTHER ENGINEERS	20	0.67	32.92	10.00
PHYSICAL SCIENTISTS	10	0.33	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	10	0.33	26.50	30.00
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	30	1.00	N.A.	N.A.
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.67	0.00	5.00
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	10	0.33	30.22	20.00
SALES AND RELATED OCCUPATIONS	100	3.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	1.01	37.11	20.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	50	1.68	43.87	25.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	210	7.05	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.67	22.35	35.00
ADJUSTMENT CLERKS	10	0.33	39.67	15.00
SECRETARIES	30	1.01	23.83	40.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.01	16.06	50.00
GENERAL OFFICE CLERKS	40	1.34	24.01	50.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	2.69	N.A.	N.A.
SERVICE OCCUPATIONS	60	2.01	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.33	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	1.01	37.28	30.00

SIC 207 FATS AND OILS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.67	N.A.	N.A.
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	20	0.67	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,260	76.00	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	130	4.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.67	24.68	35.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	110	3.70	17.36	65.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	30	1.01	44.33	15.00
MECHANICS, INSTALLERS, AND REPAIRERS	280	9.41	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	110	3.70	17.19	50.00
MILLWRIGHTS	10	0.33	45.69	15.00
MACHINERY MAINTENANCE WORKERS	30	1.01	29.50	15.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	3.70	21.48	35.00
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.67	35.27	20.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.67	N.A.	N.A.
ELECTRICIANS	20	0.67	24.23	25.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	640	21.52	N.A.	N.A.
BOILER OPERATORS AND TENDERS-LOW PRESSURE	30	1.01	17.09	25.00
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	40	1.34	17.25	20.00
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	50	1.68	25.64	25.00
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	160	5.38	38.88	40.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	20	0.67	22.30	10.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	60	2.02	22.95	25.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	160	5.38	23.06	30.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	120	4.04	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	20	0.67	N.A.	N.A.
ALL OTHER HAND WORKERS	20	0.67	N.A.	N.A.

SIC 207 FATS AND OILS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MOTOR VEHICLE OPERATORS	160	5.38	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	120	4.04	33.31	35.00
ALL OTHER MOTOR VEHICLE OPERATORS	40	1.34	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	300	10.09	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	140	4.71	16.82	50.00
PUMP OPERATORS	50	1.68	31.15	15.00
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	110	3.70	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	560	18.84	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	130	4.37	33.07	30.00
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	2.35	32.36	30.00
HAND PACKERS AND PACKAGERS	30	1.01	33.55	15.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	330	11.11	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	4.04	N.A.	N.A.

SIC 208 BEVERAGES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	14,460	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,120	7.66	N.A.	N.A.
FINANCIAL MANAGERS	60	0.41	36.34	66.67
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.27	29.47	57.14
PURCHASING MANAGERS	10	0.06	49.86	28.57
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	200	1.37	25.84	52.38
ADMINISTRATIVE SERVICES MANAGERS	20	0.13	28.92	23.81
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.13	38.82	42.86
INDUSTRIAL PRODUCTION MANAGERS	120	0.82	27.09	66.67
ALL OTHER MANAGERS AND ADMINISTRATORS	650	4.47	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	360	2.43	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	80	0.55	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	80	0.55	39.76	52.38
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	40	0.27	31.92	47.62
ALL OTHER MANAGEMENT SUPPORT WORKERS	80	0.55	N.A.	N.A.
ENGINEERS	30	0.20	N.A.	N.A.
MECHANICAL ENGINEERS	30	0.20	28.08	28.57
PHYSICAL SCIENTISTS	10	0.06	N.A.	N.A.
ALL OTHER PHYSICAL SCIENTISTS	10	0.06	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.13	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.13	32.40	14.29
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	70	0.47	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	40	0.27	43.27	38.10
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	30	0.20	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,650	11.36	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	510	3.51	28.85	42.86
ALL OTHER SALES AND RELATED WORKERS	1,140	7.85	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,550	10.55	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	110	0.75	34.53	57.14
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	40	0.27	N.A.	N.A.
SECRETARIES	180	1.23	31.79	71.43
RECEPTIONISTS AND INFORMATION CLERKS	20	0.13	48.87	28.57
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	30	0.20	16.30	19.05
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.13	35.79	28.57

SIC 208 BEVERAGES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PROCUREMENT CLERKS	10	0.06	48.57	23.81
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	120	0.82	25.14	42.86
PAYROLL AND TIMEKEEPING CLERKS	40	0.27	36.54	52.38
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	100	0.68	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.13	15.67	33.33
ALL OTHER OFFICE MACHINE OPERATORS	80	0.55	N.A.	N.A.
SWITCHBOARD OPERATORS	30	0.20	37.37	52.38
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	650	4.44	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	50	0.34	29.24	47.62
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	30	0.20	34.64	14.29
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	190	1.30	29.79	47.62
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	370	2.54	47.77	61.90
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.06	38.11	14.29
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	200	1.37	N.A.	N.A.
SERVICE OCCUPATIONS	190	1.29	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.13	8.13	9.52
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	30	0.20	42.12	4.76
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.55	46.68	47.62
ALL OTHER SERVICE WORKERS	60	0.41	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	9,590	65.87	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	880	6.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	170	1.17	19.40	57.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	580	3.99	19.79	71.43
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	100	0.68	43.89	38.10
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	30	0.20	47.86	19.05
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	0.27	23.34	14.29
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	320	2.20	25.02	47.62
MECHANICS, INSTALLERS, AND REPAIRERS	1,200	8.23	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	280	1.92	28.34	47.62
MACHINERY MAINTENANCE WORKERS	20	0.13	48.43	19.05

SIC 208 BEVERAGES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAINTENANCE REPAIRERS-GENERAL UTILITY	330	2.27	20.07	42.86
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	160	1.10	36.81	38.10
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	40	0.27	N.A.	N.A.
COIN AND VENDING MACHINE SERVICERS AND REPAIRERS	290	1.99	19.50	42.86
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	80	0.55	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	130	0.88	N.A.	N.A.
ELECTRICIANS	110	0.75	21.43	33.33
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	20	0.13	48.46	19.05
PRECISION PRODUCTION OCCUPATIONS	590	4.06	N.A.	N.A.
ALL OTHER PRECISION WORKERS	590	4.06	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	3,490	24.00	N.A.	N.A.
COOKING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	10	0.06	39.45	4.76
BOILER OPERATORS AND TENDERS-LOW PRESSURE	10	0.06	38.74	4.76
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	130	0.89	40.67	9.52
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	240	1.65	32.92	14.29
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	2,960	20.38	19.41	90.48
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	140	0.96	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	70	0.48	N.A.	N.A.
STATIONARY ENGINEERS	70	0.48	31.30	14.29
MOTOR VEHICLE OPERATORS	1,590	10.94	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	170	1.17	38.93	28.57
DRIVER/SALES OCCUPATIONS	1,060	7.30	32.64	38.10
ALL OTHER MOTOR VEHICLE OPERATORS	360	2.47	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	40	0.27	89.35	14.29
MATERIAL MOVING EQUIPMENT OPERATORS	480	3.28	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	370	2.54	35.95	42.86
CONVEYOR OPERATORS AND TENDERS	90	0.61	39.02	4.76
PUMP OPERATORS	20	0.13	39.46	4.76
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	720	4.95	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	720	4.95	N.A.	N.A.

SIC 209 MISC. FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	14,480	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,300	8.94	N.A.	N.A.
FINANCIAL MANAGERS	90	0.62	37.15	34.48
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	100	0.69	26.13	31.03
PURCHASING MANAGERS	30	0.20	24.80	10.34
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	190	1.31	26.70	34.48
ADMINISTRATIVE SERVICES MANAGERS	60	0.41	24.17	31.03
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	140	0.96	17.96	17.24
INDUSTRIAL PRODUCTION MANAGERS	250	1.72	30.89	48.28
GENERAL MANAGERS AND TOP EXECUTIVES	380	2.62	38.19	65.52
ALL OTHER MANAGERS AND ADMINISTRATORS	60	0.41	34.00	17.24
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,200	8.19	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	270	1.86	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	190	1.31	36.57	20.69
ALL OTHER FINANCIAL SPECIALISTS	80	0.55	30.22	10.34
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.13	19.74	10.34
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	70	0.48	32.82	24.14
ALL OTHER MANAGEMENT SUPPORT WORKERS	140	0.96	N.A.	N.A.
ENGINEERS	260	1.79	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	110	0.76	3.64	13.79
MECHANICAL ENGINEERS	100	0.69	39.89	27.59
ALL OTHER ENGINEERS	50	0.34	20.25	6.90
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	90	0.60	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.06	24.73	6.90
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.27	32.81	10.34
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	40	0.27	38.02	6.90
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	50	0.34	N.A.	N.A.
PHYSICAL SCIENTISTS	50	0.34	N.A.	N.A.
ALL OTHER PHYSICAL SCIENTISTS	50	0.34	40.64	3.45
LIFE SCIENTISTS	50	0.34	40.39	3.45
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	190	1.29	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	100	0.69	30.14	10.34
COMPUTER PROGRAMMERS	60	0.41	30.85	10.34
COMPUTER PROGRAMMER AIDES	10	0.06	23.24	13.79
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.13	32.38	3.45
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	0.34	24.76	6.90

SIC 209 MISC. FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SALES AND RELATED OCCUPATIONS	580	4.00	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	220	1.52	46.08	34.48
ALL OTHER SALES AND RELATED WORKERS	360	2.48	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,310	15.88	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	80	0.55	13.40	48.28
ADJUSTMENT CLERKS	10	0.06	32.59	17.24
SECRETARIES	340	2.34	24.83	44.83
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.06	31.97	6.90
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.13	18.81	27.59
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	60	0.41	48.68	31.03
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	510	3.52	26.96	51.72
GENERAL OFFICE CLERKS	440	3.04	25.12	62.07
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	140	0.96	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	50	0.34	24.57	17.24
ALL OTHER OFFICE MACHINE OPERATORS	90	0.62	N.A.	N.A.
SWITCHBOARD OPERATORS	20	0.13	22.23	17.24
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	540	3.72	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	0.27	29.91	24.14
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	500	3.45	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	140	0.96	N.A.	N.A.
SERVICE OCCUPATIONS	290	1.99	N.A.	N.A.
GUARDS AND WATCH GUARDS	30	0.20	47.26	10.34
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	170	1.17	N.A.	N.A.
ALL OTHER SERVICE WORKERS	90	0.62	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	140	0.96	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	8,660	59.69	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	480	3.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	0.27	30.35	31.03

SIC 209 MISC. FOOD AND KINDRED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	320	2.21	35.77	62.07
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	60	0.41	40.16	24.14
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	60	0.41	N.A.	N.A.
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	140	0.96	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	490	3.36	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	270	1.86	38.04	51.72
MAINTENANCE REPAIRERS-GENERAL UTILITY	180	1.24	38.12	31.03
AUTOMOTIVE MECHANICS	10	0.06	35.24	10.34
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	30	0.20	43.95	13.79
PRECISION PRODUCTION OCCUPATIONS	260	1.77	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	10	0.06	N.A.	N.A.
ALL OTHER PRECISION FOOD AND TOBACCO WORKERS	230	1.58	N.A.	N.A.
ALL OTHER PRECISION WORKERS	20	0.13	41.29	3.45
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,800	19.33	N.A.	N.A.
ROASTING, BAKING, AND DRYING MACHINE OPERATORS AND TENDERS-FOOD AND TOBACCO	160	1.10	42.88	10.34
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	20	0.13	40.39	3.45
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	90	0.62	29.20	13.79
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	2,530	17.48	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	460	3.17	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	20	0.13	40.12	3.45
ALL OTHER HAND WORKERS	440	3.04	N.A.	N.A.
MOTOR VEHICLE OPERATORS	1,030	7.10	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	200	1.38	40.39	34.48
DRIVER/SALES OCCUPATIONS	600	4.14	33.61	27.59
ALL OTHER MOTOR VEHICLE OPERATORS	230	1.58	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	150	1.02	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	130	0.89	45.74	17.24
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.13	39.82	3.45
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,700	18.65	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	510	3.52	45.33	27.59
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,190	15.13	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	150	1.03	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 22 - TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage; (2) manufacturing broadwoven fabrics, narrow woven fabrics, knit fabrics, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabrics and knit apparel; (4) coating, waterproofing, or otherwise treating fabrics; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

SIC 221 - BROADWOVEN FABRIC MILLS, COTTON

Establishments that are primarily engaged in weaving fabrics more than twelve inches in width, wholly, or chiefly by weight of cotton such as cheesecloth, crinoline, percale, and velours are in this industry.

SIC 22 TEXTILE MILL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,960	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	210	5.32	N.A.	N.A.
FINANCIAL MANAGERS	10	0.25	6.02	27.59
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.25	5.89	27.59
INDUSTRIAL PRODUCTION MANAGERS	50	1.27	10.96	51.72
GENERAL MANAGERS AND TOP EXECUTIVES	80	2.03	9.76	86.21
ALL OTHER MANAGERS AND ADMINISTRATORS	60	1.52	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	100	2.52	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.50	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.50	0.00	6.90
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.25	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	10	0.25	3.52	10.34
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.50	7.01	13.79
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	1.27	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	0.75	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.25	15.33	24.14
ALL OTHER SALES AND RELATED WORKERS	20	0.50	0.00	6.90
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	270	6.81	N.A.	N.A.
SECRETARIES	20	0.50	15.30	44.83
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.25	0.00	3.45
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.76	12.26	37.93
BILLING, COST AND RATE CLERKS	10	0.25	35.33	17.24
GENERAL OFFICE CLERKS	30	0.76	24.84	34.48
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.50	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	20	0.50	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	2.52	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.50	5.72	10.34
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.76	0.00	17.24
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.01	5.71	41.38
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.25	5.09	10.34
SERVICE OCCUPATIONS	120	3.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.50	25.89	6.90
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	70	1.78	3.61	34.48

SIC 22 TEXTILE MILL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	20	0.50	23.01	6.90
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,230	82.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	150	3.81	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.25	7.95	17.24
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	140	3.56	9.54	55.17
PRECISION INSPECTORS, TESTERS, AND GRADERS	20	0.50	0.00	10.34
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	170	4.32	11.22	31.03
MECHANICS, INSTALLERS, AND REPAIRERS	370	9.38	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-TEXTILE MACHINES	200	5.08	4.67	37.93
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.50	0.00	6.90
MACHINERY MAINTENANCE WORKERS	50	1.27	0.00	10.34
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	2.03	17.85	34.48
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.50	0.00	10.34
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.76	N.A.	N.A.
ELECTRICIANS	30	0.76	2.79	17.24
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	1,200	30.51	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	260	6.61	4.43	34.48
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	660	16.79	9.25	55.17
EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS-SYNTHETIC AND GLASS FIBERS	40	1.01	2.53	10.34
TEXTILE DRAW-OUT MACHINE OPERATORS AND TENDERS	150	3.81	27.84	17.24
TEXTILE BLEACHING AND DYEING MACHINE OPERATORS AND TENDERS	90	2.29	9.88	24.14
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	140	3.56	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	180	4.55	N.A.	N.A.
BOILER OPERATORS AND TENDERS-LOW PRESSURE	10	0.25	34.28	10.34
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	40	1.01	21.84	20.69
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.50	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	110	2.79	3.89	13.79

SIC 22 TEXTILE MILL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	80	2.03	N.A.	N.A.
ALL OTHER HAND WORKERS	80	2.03	0.00	3.45
MOTOR VEHICLE OPERATORS	30	0.76	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	30	0.76	12.69	17.24
MATERIAL MOVING EQUIPMENT OPERATORS	50	1.27	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	50	1.27	24.27	34.48
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	720	18.30	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	190	4.83	10.14	24.14
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	370	9.41	8.34	27.59
HAND PACKERS AND PACKAGERS	40	1.01	8.80	27.59
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	120	3.05	12.88	17.24
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	90	2.29	N.A.	N.A.

SIC 221 BROADWOVEN FABRIC MILLS, COTTON
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,120	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	70	3.26	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	10	0.46	0.00	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	20	0.93	7.33	83.33
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	70	3.25	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.93	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.93	0.00	33.33
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.46	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	10	0.46	0.00	33.33
DESIGNERS-EXCEPT INTERIOR DESIGNERS	10	0.46	0.00	16.67
SALES AND RELATED OCCUPATIONS	10	0.46	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	120	5.60	N.A.	N.A.
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.46	0.00	16.67
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.46	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	10	0.46	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	20	0.93	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.93	0.00	50.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	3.75	N.A.	N.A.
SERVICE OCCUPATIONS	60	2.80	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	1.87	0.00	66.67
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,790	83.86	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	110	5.15	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.46	0.00	66.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	4.69	0.00	0.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	10	0.46	0.00	33.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	90	4.22	0.00	66.67
MECHANICS, INSTALLERS, AND REPAIRERS	250	11.70	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-TEXTILE MACHINES	150	7.04	0.00	66.67
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.93	0.00	33.33

SIC 221 BROADWOVEN FABRIC MILLS, COTTON
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINERY MAINTENANCE WORKERS	50	2.34	0.00	33.33
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.46	0.00	33.33
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.93	0.00	33.33
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.93	N.A.	N.A.
ELECTRICIANS	20	0.93	0.00	33.33
PRECISION PRODUCTION OCCUPATIONS	10	0.46	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	10	0.46	0.00	16.67
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	700	32.84	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	120	5.63	0.00	66.67
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	360	16.90	0.30	83.33
EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS-SYNTHETIC AND GLASS FIBERS	40	1.87	0.00	16.67
TEXTILE DRAW-OUT MACHINE OPERATORS AND TENDERS	100	4.69	0.00	66.67
TEXTILE BLEACHING AND DYEING MACHINE OPERATORS AND TENDERS	80	3.75	0.00	50.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	70	3.26	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	20	0.93	0.00	16.67
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	20	0.93	0.00	33.33
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	30	1.40	0.00	33.33
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.46	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	10	0.46	0.00	50.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	490	22.98	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	100	4.69	0.00	33.33
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	270	12.67	0.00	50.00
HAND PACKERS AND PACKAGERS	20	0.93	0.00	33.33
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	100	4.69	0.00	50.00

INDUSTRY CHARACTERISTICS

SIC 23 - APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials, such as leather, rubberized fabrics, plastics, and furs.

SIC 232 - MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

Establishments that are primarily engaged in manufacturing men's and boys' shirts; underwear and nightwear; neckwear; separate trousers and slacks; work clothing; and clothing, not elsewhere classified, are in this industry.

SIC 233 - WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR

This industry group includes establishments primarily engaged in manufacturing women's, misses', and juniors' blouses and shirts; dresses; suits, skirts, and coats; and outerwear, not elsewhere classified.

SIC 234 - WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERGARMENTS

This industry group includes establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear; and brassieres, girdles, and allied garments.

SIC 235 - HATS, CAPS, AND MILLINERY

Establishments that are primarily engaged in manufacturing hats, caps, and millinery, and hat bodies are in this industry.

SIC 238 - MISCELLANEOUS APPAREL AND ACCESSORIES

This industry group includes establishments primarily engaged in manufacturing dress and work gloves, except knit and all-leather; men's, boys', and women's robes and dressing gowns; raincoats and other waterproof outerwear; leather and sheep-lined clothing; apparel belts; and apparel and accessories, not elsewhere classified.

SIC 239 - MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

This industry group includes establishments primarily engaged in manufacturing curtains and draperies; housefurnishings, except curtains and draperies; textile bags; canvas and related products; pleating, decorative and novelty stitching, and tucking for the trade; automotive trimmings, apparel findings, and related products; Schiffli machine embroideries; and fabricated textile products, not elsewhere classified.

SIC 23 APPAREL AND OTHER TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	57,350	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,000	3.44	N.A.	N.A.
FINANCIAL MANAGERS	110	0.19	15.49	20.92
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	80	0.13	12.06	20.26
PURCHASING MANAGERS	60	0.10	11.67	15.69
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	100	0.17	19.61	14.38
ADMINISTRATIVE SERVICES MANAGERS	20	0.03	17.64	7.19
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.03	29.28	6.54
INDUSTRIAL PRODUCTION MANAGERS	460	0.80	14.78	50.98
GENERAL MANAGERS AND TOP EXECUTIVES	1,030	1.79	13.33	71.90
ALL OTHER MANAGERS AND ADMINISTRATORS	120	0.20	23.55	9.80
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,100	1.83	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	80	0.13	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	60	0.10	25.04	9.80
ALL OTHER FINANCIAL SPECIALISTS	20	0.03	35.15	2.61
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	40	0.06	24.32	9.80
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	40	0.06	26.32	7.19
COST ESTIMATORS	20	0.03	17.72	5.23
ENGINEERS	210	0.36	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	110	0.19	33.85	12.42
ALL OTHER ENGINEERS	100	0.17	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	120	0.20	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.03	15.82	4.58
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	100	0.17	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	110	0.18	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	30	0.05	33.54	5.23
COMPUTER PROGRAMMERS	60	0.10	22.01	6.54
COMPUTER PROGRAMMER AIDES	20	0.03	31.69	3.92
TEACHERS AND INSTRUCTORS-VOCATIONAL EDUCATION AND TRAINING	110	0.19	10.27	7.84
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.01	17.69	3.92
DESIGNERS-EXCEPT INTERIOR DESIGNERS	320	0.55	30.22	16.99
SALES AND RELATED OCCUPATIONS	1,040	1.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	0.06	27.96	7.84
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	600	1.04	23.06	20.92

SIC 23 APPAREL AND OTHER TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SALESPERSONS-RETAIL SALES	370	0.64	33.94	17.65
ALL OTHER SALES AND RELATED WORKERS	30	0.05	33.96	3.92
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	4,750	8.13	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	280	0.48	15.10	31.37
ADJUSTMENT CLERKS	200	0.34	28.59	13.07
SECRETARIES	360	0.62	14.54	39.87
RECEPTIONISTS AND INFORMATION CLERKS	100	0.17	14.92	21.57
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.03	33.67	3.27
TYPISTS-WORD PROCESSING EQUIPMENT	40	0.06	44.80	3.92
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	70	0.12	10.11	13.73
FILE CLERKS	50	0.08	22.28	7.84
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	280	0.48	21.20	20.26
PROCUREMENT CLERKS	30	0.05	35.62	7.19
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	360	0.62	17.17	43.14
PAYROLL AND TIMEKEEPING CLERKS	170	0.29	9.56	29.41
BILLING, COST AND RATE CLERKS	130	0.22	36.58	13.07
GENERAL OFFICE CLERKS	440	0.76	14.15	36.60
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	190	0.31	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	40	0.06	30.91	6.54
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	40	0.06	27.06	9.80
DATA ENTRY KEYERS-EXCEPT COMPOSING	110	0.19	25.98	10.46
SWITCHBOARD OPERATORS	60	0.10	23.89	13.73
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,960	3.39	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	260	0.45	19.39	18.95
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	60	0.10	19.69	5.88
MARKING CLERKS	200	0.34	12.01	13.73
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	290	0.50	14.32	28.10
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	1,090	1.90	11.74	56.86
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	0.10	38.13	6.54
SERVICE OCCUPATIONS	470	0.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	40	0.06	24.41	2.61
GUARDS AND WATCH GUARDS	40	0.06	32.50	3.27
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	350	0.61	9.17	42.48
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	30	0.05	26.77	4.58
ALL OTHER SERVICE WORKERS	10	0.01	24.77	0.65

SIC 23 APPAREL AND OTHER TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	47,990	83.55	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,940	3.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	120	0.20	24.19	12.42
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,750	3.05	5.21	69.93
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	0.12	22.61	9.15
PRECISION INSPECTORS, TESTERS, AND GRADERS	150	0.26	45.78	5.88
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,930	3.36	7.56	44.44
MECHANICS, INSTALLERS, AND REPAIRERS	1,370	2.37	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-TEXTILE MACHINES	20	0.03	33.82	4.58
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	840	1.46	4.72	45.10
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.03	36.68	2.61
MAINTENANCE REPAIRERS-GENERAL UTILITY	150	0.26	15.91	18.95
MENDERS-GARMENTS, LINENS, AND RELATED	340	0.59	11.24	11.11
PRECISION PRODUCTION OCCUPATIONS	2,030	3.52	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	50	0.08	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	910	1.58	18.00	32.03
SHOE AND LEATHER OCCUPATIONS-PRECISION	130	0.22	9.82	1.96
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	940	1.64	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	280	0.48	N.A.	N.A.
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	220	0.38	42.48	5.23
PRINTING PRESS MACHINE OPERATORS AND TENDERS	60	0.10	29.53	3.27
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	31,720	55.35	N.A.	N.A.
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	700	1.22	35.23	7.84
SEWING MACHINE OPERATORS-GARMENT	26,750	46.70	3.58	71.90
SEWING MACHINE OPERATORS-NON-GARMENT	2,170	3.78	14.74	19.61
LAUNDRY AND DRYCLEANING MACHINE OPERATORS AND TENDERS-EXCEPT PRESSING	440	0.76	19.00	4.58
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	1,660	2.89	12.67	32.68
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	70	0.12	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	440	0.74	N.A.	N.A.

SIC 23 APPAREL AND OTHER TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	80	0.13	21.77	7.84
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	30	0.05	34.24	4.58
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	30	0.05	39.70	1.96
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	130	0.22	41.78	5.23
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	170	0.29	42.55	4.58
OTHER HANDWORKING OCCUPATIONS	3,840	6.66	N.A.	N.A.
PRESSERS-HAND	240	0.41	21.89	13.07
SEWERS-HAND	810	1.41	24.59	7.84
CUTTERS AND TRIMMERS-HAND	1,540	2.68	12.12	32.03
PORTABLE MACHINE CUTTERS	440	0.76	21.94	22.88
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	480	0.83	22.19	15.03
ALL OTHER HAND WORKERS	330	0.57	28.09	11.76
MOTOR VEHICLE OPERATORS	130	0.22	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	60	0.10	28.42	5.88
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	70	0.12	47.97	10.46
MATERIAL MOVING EQUIPMENT OPERATORS	70	0.11	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	0.05	31.93	4.58
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	40	0.06	32.87	2.61
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	3,290	5.72	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	260	0.45	45.37	5.23
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,260	2.19	14.59	25.49
HAND PACKERS AND PACKAGERS	900	1.57	15.07	33.33
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	870	1.51	22.71	16.34
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	730	1.27	N.A.	N.A.

SIC 232 MEN'S & BOYS' FURNISHINGS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	24,560	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	430	1.73	N.A.	N.A.
FINANCIAL MANAGERS	20	0.08	44.52	13.51
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	30	0.12	15.76	29.73
PURCHASING MANAGERS	20	0.08	20.16	21.62
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.08	21.99	10.81
INDUSTRIAL PRODUCTION MANAGERS	140	0.57	23.32	70.27
GENERAL MANAGERS AND TOP EXECUTIVES	120	0.48	16.57	48.65
ALL OTHER MANAGERS AND ADMINISTRATORS	70	0.28	20.29	24.32
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	460	1.84	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.08	N.A.	N.A.
ALL OTHER FINANCIAL SPECIALISTS	20	0.08	27.95	2.70
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.08	17.19	16.22
COST ESTIMATORS	10	0.04	17.77	10.81
ENGINEERS	140	0.56	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	80	0.32	47.65	21.62
ALL OTHER ENGINEERS	60	0.24	28.27	2.70
ALL OTHER ENGINEERS AND RELATED WORKERS	90	0.36	N.A.	N.A.
ALL OTHER TEACHERS AND INSTRUCTORS	100	0.40	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.08	10.23	10.81
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	0.24	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	110	0.44	N.A.	N.A.
SALESPERSONS-RETAIL SALES	90	0.36	23.54	21.62
ALL OTHER SALES AND RELATED WORKERS	20	0.08	42.70	5.41
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,540	6.21	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.24	14.41	45.95
ADJUSTMENT CLERKS	30	0.12	19.10	13.51
SECRETARIES	70	0.28	12.84	37.84
RECEPTIONISTS AND INFORMATION CLERKS	30	0.12	18.41	35.14
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	50	0.20	10.76	35.14
FILE CLERKS	20	0.08	28.36	13.51
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.12	27.21	13.51
PROCUREMENT CLERKS	10	0.04	33.20	13.51
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	70	0.28	14.27	40.54
PAYROLL AND TIMEKEEPING CLERKS	60	0.24	9.95	43.24
BILLING, COST AND RATE CLERKS	30	0.12	18.74	13.51

SIC 232 MEN'S & BOYS' FURNISHINGS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GENERAL OFFICE CLERKS	140	0.57	15.55	40.54
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	110	0.44	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	10	0.04	39.18	10.81
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.08	26.38	21.62
DATA ENTRY KEYERS-EXCEPT COMPOSING	80	0.32	22.21	29.73
SWITCHBOARD OPERATORS	20	0.08	25.28	21.62
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	790	3.20	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	120	0.48	18.75	32.43
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	130	0.53	12.87	45.95
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	370	1.50	9.85	70.27
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	170	0.69	42.78	13.51
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	20	0.08	N.A.	N.A.
SERVICE OCCUPATIONS	190	0.76	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	30	0.12	23.44	5.41
GUARDS AND WATCH GUARDS	20	0.08	20.61	5.41
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	120	0.48	7.51	59.46
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	10	0.04	30.30	10.81
ALL OTHER SERVICE WORKERS	10	0.04	24.77	2.70
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	21,830	88.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	810	3.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	660	2.69	5.36	70.27
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.08	20.43	10.81
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	130	0.53	13.99	10.81
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	850	3.46	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	860	3.49	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	470	1.91	4.17	67.57
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	0.20	17.01	29.73
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	340	1.38	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	440	1.78	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	40	0.16	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	200	0.81	21.00	40.54

SIC 232 MEN'S & BOYS' FURNISHINGS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PRECISION WORKERS	200	0.81	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	15,950	65.04	N.A.	N.A.
SEWING MACHINE OPERATORS-GARMENT	15,250	62.19	2.06	91.89
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	700	2.85	22.09	29.73
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	380	1.54	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	40	0.16	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	40	0.16	20.27	5.41
OTHER HANDWORKING OCCUPATIONS	1,120	4.55	N.A.	N.A.
PORTABLE MACHINE CUTTERS	60	0.24	10.74	18.92
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	80	0.32	28.93	13.51
ALL OTHER HAND WORKERS	980	3.99	11.37	10.81
MOTOR VEHICLE OPERATORS	60	0.24	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	40	0.16	24.81	13.51
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.08	18.80	13.51
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.12	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.12	16.36	5.41
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,280	5.20	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	50	0.20	34.35	10.81
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	600	2.44	10.28	40.54
HAND PACKERS AND PACKAGERS	340	1.38	20.67	40.54
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	290	1.18	16.82	21.62

SIC 233 WOMEN'S AND MISSES' OUTERWEAR
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	16,520	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	580	3.49	N.A.	N.A.
FINANCIAL MANAGERS	60	0.36	25.81	36.00
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.12	43.23	20.00
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.24	41.41	28.00
INDUSTRIAL PRODUCTION MANAGERS	120	0.72	30.74	56.00
GENERAL MANAGERS AND TOP EXECUTIVES	280	1.69	34.78	72.00
ALL OTHER MANAGERS AND ADMINISTRATORS	60	0.36	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	300	1.80	N.A.	N.A.
ALL OTHER MANAGEMENT SUPPORT WORKERS	70	0.42	N.A.	N.A.
ENGINEERS	20	0.12	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.12	43.38	20.00
ALL OTHER ENGINEERS AND RELATED WORKERS	50	0.30	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	50	0.30	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	50	0.30	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	100	0.60	49.15	24.00
SALES AND RELATED OCCUPATIONS	530	3.21	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	330	2.00	40.34	20.00
ALL OTHER SALES AND RELATED WORKERS	200	1.21	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,590	9.56	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	140	0.84	26.50	44.00
ADJUSTMENT CLERKS	60	0.36	48.33	12.00
SECRETARIES	140	0.84	29.55	52.00
RECEPTIONISTS AND INFORMATION CLERKS	40	0.24	30.38	32.00
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.06	25.09	12.00
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	90	0.54	35.64	28.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	140	0.84	34.65	56.00
PAYROLL AND TIMEKEEPING CLERKS	50	0.30	25.31	40.00
GENERAL OFFICE CLERKS	150	0.90	32.78	40.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	40	0.24	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	40	0.24	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	20	0.12	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	590	3.56	N.A.	N.A.

SIC 233 WOMEN'S AND MISSES' OUTERWEAR
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.36	32.12	20.00
MARKING CLERKS	60	0.36	34.71	20.00
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	100	0.60	35.84	44.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	370	2.24	31.77	44.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	120	0.72	N.A.	N.A.
SERVICE OCCUPATIONS	140	0.84	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	130	0.78	20.67	56.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	13,380	81.02	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	540	3.27	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	540	3.27	12.83	80.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	550	3.33	18.37	52.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	90	0.54	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	290	1.75	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	200	1.21	14.28	56.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	0.30	41.27	24.00
MENDERS-GARMENTS, LINENS, AND RELATED	40	0.24	32.38	16.00
PRECISION PRODUCTION OCCUPATIONS	1,100	6.66	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	530	3.21	28.82	48.00
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	570	3.45	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	7,480	45.32	N.A.	N.A.
SEWING MACHINE OPERATORS-GARMENT	6,530	39.57	12.65	84.00
LAUNDRY AND DRYCLEANING MACHINE OPERATORS AND TENDERS-EXCEPT PRESSING	260	1.57	28.14	12.00
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	690	4.18	19.82	56.00
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	370	2.24	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.06	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.06	43.19	4.00
OTHER HANDWORKING OCCUPATIONS	850	5.14	N.A.	N.A.
PRESSERS-HAND	100	0.60	44.07	16.00
CUTTERS AND TRIMMERS-HAND	550	3.33	30.29	40.00
PORTABLE MACHINE CUTTERS	200	1.21	41.33	36.00

SIC 233 WOMEN'S AND MISSES' OUTERWEAR
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MOTOR VEHICLE OPERATORS	20	0.12	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.12	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	20	0.12	N.A.	N.A.
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	20	0.12	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	660	3.99	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	440	2.66	37.98	36.00
HAND PACKERS AND PACKAGERS	220	1.33	39.63	40.00
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	1,400	8.48	N.A.	N.A.

SIC 234 WOMEN'S AND CHILDREN'S UNDERGARMENTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,150	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	50	1.57	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	10	0.31	18.06	54.55
GENERAL MANAGERS AND TOP EXECUTIVES	20	0.63	24.68	63.64
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	40	1.26	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	80	2.53	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.63	42.34	18.18
ALL OTHER SALES AND RELATED WORKERS	60	1.90	48.24	9.09
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	200	6.31	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.31	17.60	54.55
SECRETARIES	10	0.31	38.64	27.27
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	10	0.31	12.33	45.45
PAYROLL AND TIMEKEEPING CLERKS	20	0.63	17.99	54.55
GENERAL OFFICE CLERKS	30	0.95	31.50	45.45
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	1.58	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.63	13.08	36.36
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	0.95	26.71	54.55
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	2.22	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.63	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.63	16.82	54.55
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,760	87.56	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	120	3.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	120	3.80	7.95	90.91
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	180	5.71	14.29	63.64
MECHANICS, INSTALLERS, AND REPAIRERS	80	2.53	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	80	2.53	9.55	81.82
PRECISION PRODUCTION OCCUPATIONS	40	1.26	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	40	1.26	26.55	36.36

SIC 234 WOMEN'S AND CHILDREN'S UNDERGARMENTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	2,120	67.30	N.A.	N.A.
SEWING MACHINE OPERATORS-GARMENT	2,120	67.30	5.74	90.91
OTHER HANDWORKING OCCUPATIONS	50	1.58	N.A.	N.A.
PORTABLE MACHINE CUTTERS	50	1.58	26.98	54.55
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	90	2.85	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	60	1.90	9.99	36.36
HAND PACKERS AND PACKAGERS	30	0.95	28.21	27.27
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	80	2.53	N.A.	N.A.

SIC 235 HATS, CAPS, AND MILLINERY
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,510	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	50	3.25	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	10	0.65	16.83	41.67
GENERAL MANAGERS AND TOP EXECUTIVES	20	1.30	13.03	83.33
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	10	0.65	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	1.95	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	1.30	40.18	33.33
SALESPERSONS-RETAIL SALES	10	0.65	37.24	33.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	80	5.22	N.A.	N.A.
SECRETARIES	10	0.65	19.79	50.00
GENERAL OFFICE CLERKS	10	0.65	22.51	50.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	3.92	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.65	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.65	13.01	25.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,330	86.84	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	70	4.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	70	4.57	3.56	75.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	1.96	0.00	8.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	30	1.96	5.11	25.00
MECHANICS, INSTALLERS, AND REPAIRERS	20	1.30	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	20	1.30	11.02	33.33
PRECISION PRODUCTION OCCUPATIONS	30	1.95	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	20	1.30	11.25	33.33
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	10	0.65	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	830	54.23	N.A.	N.A.
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	20	1.30	28.62	16.67
SEWING MACHINE OPERATORS-GARMENT	700	45.75	7.45	75.00
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	110	7.18	20.50	75.00

SIC 235 HATS, CAPS, AND MILLINERY
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	50	3.26	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.65	N.A.	N.A.
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	10	0.65	0.00	8.33
OTHER HANDWORKING OCCUPATIONS	150	9.79	N.A.	N.A.
PRESSERS-HAND	20	1.30	32.97	25.00
CUTTERS AND TRIMMERS-HAND	90	5.88	3.84	41.67
ALL OTHER HAND WORKERS	40	2.61	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	80	5.21	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	2.61	6.80	25.00
HAND PACKERS AND PACKAGERS	20	1.30	16.18	50.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	1.30	5.63	16.67

SIC 238 MISCELLANEOUS APPAREL AND ACCESSORIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,650	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	90	5.46	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	1.21	21.92	35.00
GENERAL MANAGERS AND TOP EXECUTIVES	50	3.04	9.21	85.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	30	1.81	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	1.21	15.62	35.00
SALES AND RELATED OCCUPATIONS	110	6.69	N.A.	N.A.
SALESPERSONS-RETAIL SALES	10	0.60	22.94	20.00
ALL OTHER SALES AND RELATED WORKERS	100	6.09	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	190	11.53	N.A.	N.A.
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	10	0.60	N.A.	N.A.
SECRETARIES	10	0.60	20.10	40.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	1.21	19.09	60.00
GENERAL OFFICE CLERKS	20	1.21	26.31	30.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	6.09	N.A.	N.A.
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	100	6.09	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.60	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.60	15.76	30.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,220	74.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	50	3.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	50	3.04	13.36	65.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	3.65	12.78	50.00
MECHANICS, INSTALLERS, AND REPAIRERS	10	0.60	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	10	0.60	28.32	25.00
PRECISION PRODUCTION OCCUPATIONS	200	12.18	N.A.	N.A.
CUSTOM TAILORS AND SEWERS	20	1.21	38.99	10.00
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	180	10.97	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	480	29.25	N.A.	N.A.

SIC 238 MISCELLANEOUS APPAREL AND ACCESSORIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SEWING MACHINE OPERATORS-GARMENT	460	28.04	12.77	85.00
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	20	1.21	16.35	25.00
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	80	4.87	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	70	4.25	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	30	1.82	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	40	2.43	44.89	10.00
OTHER HANDWORKING OCCUPATIONS	200	12.17	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	50	3.04	20.09	50.00
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	100	6.09	21.62	30.00
ALL OTHER HAND WORKERS	50	3.04	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	60	3.65	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	3.65	N.A.	N.A.

SIC 239 MISC. FABRICATED TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	8,480	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	780	9.16	N.A.	N.A.
FINANCIAL MANAGERS	30	0.35	25.24	25.00
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.23	19.37	22.22
PURCHASING MANAGERS	20	0.23	24.73	16.67
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.35	26.96	16.67
INDUSTRIAL PRODUCTION MANAGERS	160	1.88	30.03	47.22
GENERAL MANAGERS AND TOP EXECUTIVES	500	5.89	19.12	86.11
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	240	2.81	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.11	38.57	13.89
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	10	0.11	N.A.	N.A.
COMPUTER PROGRAMMERS	10	0.11	42.45	8.33
DESIGNERS-EXCEPT INTERIOR DESIGNERS	180	2.12	46.03	19.44
SALES AND RELATED OCCUPATIONS	170	1.99	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	0.35	40.74	11.11
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	120	1.41	33.52	33.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,070	12.53	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.70	29.77	25.00
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	90	1.06	N.A.	N.A.
SECRETARIES	100	1.17	28.03	38.89
RECEPTIONISTS AND INFORMATION CLERKS	20	0.23	32.90	22.22
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.11	46.71	8.33
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	140	1.65	34.94	25.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	110	1.29	36.03	30.56
PAYROLL AND TIMEKEEPING CLERKS	30	0.35	27.34	19.44
BILLING, COST AND RATE CLERKS	20	0.23	33.55	16.67
GENERAL OFFICE CLERKS	90	1.06	34.38	33.33
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.23	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	20	0.23	N.A.	N.A.
SWITCHBOARD OPERATORS	20	0.23	38.47	13.89
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	310	3.64	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	0.47	28.36	16.67

SIC 239 MISC. FABRICATED TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	200	2.35	17.55	58.33
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	70	0.82	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	0.58	N.A.	N.A.
SERVICE OCCUPATIONS	70	0.80	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.11	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	50	0.58	26.97	25.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,150	72.40	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	260	3.06	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	240	2.83	19.51	58.33
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.23	47.99	11.11
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	200	2.35	32.37	19.44
MECHANICS, INSTALLERS, AND REPAIRERS	80	0.93	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-SEWING MACHINES	60	0.70	31.92	25.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.23	31.26	16.67
PRECISION PRODUCTION OCCUPATIONS	200	2.35	N.A.	N.A.
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	90	1.06	41.64	16.67
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	110	1.29	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	260	3.06	N.A.	N.A.
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	220	2.59	43.06	16.67
PRINTING PRESS MACHINE OPERATORS AND TENDERS	40	0.47	35.69	11.11
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	2,980	35.12	N.A.	N.A.
SEWING MACHINE OPERATORS-GARMENT	890	10.49	37.83	25.00
SEWING MACHINE OPERATORS-NON-GARMENT	2,040	24.05	15.47	69.44
PRESSING MACHINE OPERATORS AND TENDERS-TEXTILE, GARMENT, AND RELATED MATERIALS	50	0.58	48.42	13.89
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	190	2.24	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	170	1.99	N.A.	N.A.
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	40	0.47	37.27	13.89
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	10	0.11	47.09	11.11
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	120	1.41	47.57	16.67
OTHER HANDWORKING OCCUPATIONS	700	8.23	N.A.	N.A.

SIC 239 MISC. FABRICATED TEXTILE PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTERS AND TRIMMERS-HAND	110	1.29	30.22	22.22
PORTABLE MACHINE CUTTERS	110	1.29	42.34	22.22
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	220	2.59	39.83	19.44
ALL OTHER HAND WORKERS	260	3.06	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.35	N.A.	N.A.
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	30	0.35	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	810	9.54	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	130	1.53	41.90	16.67
HAND PACKERS AND PACKAGERS	250	2.94	29.39	33.33
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	430	5.07	35.89	27.78
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	270	3.18	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 24 - LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes establishments engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basis materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or related materials.

SIC 241 - LOGGING

Establishments that are primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials, or in producing wood chips in the field are in this industry.

SIC 242 - SAWMILLS AND PLANING MILLS

This industry group includes establishments primarily engaged as sawmills and planing mills, general; hardwood dimension and flooring mills; and special product sawmills, not elsewhere classified, such as excelsior, wood shingles, and cooperage stock.

SIC 243 - MILLWORK, VENEER, PLYWOOD, AND STRUCTURAL WOOD MEMBERS

This industry group includes establishments primarily engaged in manufacturing millwork; wood kitchen cabinets; hardwood veneer and plywood; softwood veneer and plywood; and structural wood members, not elsewhere classified.

SIC 244 - WOOD CONTAINERS

Establishments that are primarily engaged in nailed and lock corner wood boxes and shook; wood pallets and skids; and wood containers, not elsewhere classified, are in this industry.

SIC 245 - WOOD BUILDINGS AND MOBILE HOMES

This industry group includes establishments primarily engaged in manufacturing mobile homes and nonresidential mobile buildings; and prefabricated wood buildings, sections, and panels.

SIC 249 - MISCELLANEOUS WOOD PRODUCTS

This industry group includes establishments primarily engaged in wood preserving; and in manufacturing reconstituted wood products; and miscellaneous wood products, not elsewhere classified, and products from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow.

SIC 24 LUMBER AND WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	31,110	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,740	5.54	N.A.	N.A.
FINANCIAL MANAGERS	80	0.25	23.44	18.60
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	30	0.09	30.79	9.77
PURCHASING MANAGERS	50	0.16	27.21	13.02
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	70	0.22	29.68	10.70
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.09	48.23	5.12
ALL OTHER ADMINISTRATIVE MANAGERS	20	0.06	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	370	1.18	20.67	35.81
GENERAL MANAGERS AND TOP EXECUTIVES	1,050	3.37	13.90	75.81
ALL OTHER MANAGERS AND ADMINISTRATORS	40	0.12	44.24	6.51
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	930	2.93	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	120	0.38	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	120	0.38	26.42	17.67
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	120	0.38	23.59	19.07
COST ESTIMATORS	220	0.70	44.60	10.70
ALL OTHER MANAGEMENT SUPPORT WORKERS	70	0.22	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	150	0.47	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.03	46.16	1.86
DRAFTERS	140	0.44	44.70	9.77
ALL OTHER ENGINEERS AND RELATED WORKERS	60	0.19	N.A.	N.A.
LIFE SCIENTISTS	90	0.28	N.A.	N.A.
FORESTERS AND CONSERVATION SCIENTISTS	90	0.28	25.98	6.51
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	40	0.12	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.06	43.26	2.79
COMPUTER PROGRAMMERS	20	0.06	45.47	5.12
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	0.19	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	770	2.46	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.12	33.15	3.72
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	530	1.70	30.65	23.72
ALL OTHER SALES AND RELATED WORKERS	200	0.64	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,070	6.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	80	0.25	28.41	13.02

SIC 24   LUMBER AND WOOD PRODUCTS
REFFRENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	30	0.09	N.A.	N.A.
SECRETARIES	510	1.63	13.02	48.37
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	30	0.09	35.48	8.84
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	320	1.02	19.65	33.95
PAYROLL AND TIMEKEEPING CLERKS	60	0.19	27.41	14.88
BILLING, COST AND RATE CLERKS	40	0.12	40.75	6.98
GENERAL OFFICE CLERKS	290	0.93	16.25	31.16
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	40	0.12	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	40	0.12	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	30	0.09	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	520	1.66	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.19	45.66	9.77
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.06	33.35	3.26
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	100	0.32	38.76	10.70
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	340	1.09	23.30	22.79
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	120	0.38	N.A.	N.A.
SERVICE OCCUPATIONS	340	1.08	N.A.	N.A.
GUARDS AND WATCH GUARDS	130	0.41	23.56	12.56
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	150	0.48	29.64	15.81
ALL OTHER SERVICE WORKERS	60	0.19	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	1,400	4.46	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	130	0.41	23.15	9.30
FALLERS AND BUCKERS	290	0.93	15.32	12.56
LOG HANDLING EQUIPMENT OPERATORS	320	1.02	17.67	17.21
LOGGING TRACTOR OPERATORS	490	1.57	13.37	18.14
FOREST AND CONSERVATION WORKERS	70	0.22	22.77	3.26
LOG GRADERS AND SCALERS	70	0.22	21.50	8.37
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	23,860	76.38	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,460	4.68	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	60	0.19	30.89	11.63
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,160	3.72	13.14	56.74
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	240	0.77	N.A.	N.A.

SIC 24 LUMBER AND WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	0.12	34.12	2.79
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	540	1.73	38.85	15.35
MECHANICS, INSTALLERS, AND REPAIRERS	1,090	3.47	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	160	0.51	19.12	15.35
MACHINERY MAINTENANCE WORKERS	70	0.22	42.83	8.37
MAINTENANCE REPAIRERS-GENERAL UTILITY	440	1.41	19.93	29.30
AUTOMOTIVE MECHANICS	50	0.16	28.28	3.26
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	30	0.09	43.15	5.12
MOBILE HEAVY EQUIPMENT MECHANICS-EXCEPT ENGINES	80	0.25	42.69	5.12
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	260	0.83	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	690	2.19	N.A.	N.A.
CARPENTERS	470	1.50	27.44	8.84
ELECTRICIANS	130	0.41	35.50	10.70
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	0.19	44.28	1.86
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	30	0.09	40.87	1.40
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	110	0.35	47.63	0.93
PRECISION PRODUCTION OCCUPATIONS	3,320	10.63	N.A.	N.A.
MACHINISTS	40	0.12	41.73	4.65
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	70	0.22	39.59	7.91
ALL OTHER PRECISION METAL WORKERS	20	0.06	N.A.	N.A.
WOOD MACHINISTS	980	3.14	37.14	14.42
CABINETMAKERS AND BENCH CARPENTERS	1,890	6.07	39.49	13.02
FURNITURE FINISHERS	60	0.19	36.31	0.47
ALL OTHER PRECISION WOODWORKERS	260	0.83	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	230	0.73	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	100	0.32	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	130	0.41	N.A.	N.A.
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	2,010	6.43	N.A.	N.A.
SAWING MACHINE SETTERS AND SET-UP OPERATORS	130	0.41	30.67	8.37
HEAD SAWYERS	80	0.25	21.31	8.84
SAWING MACHINE OPERATORS AND TENDERS	1,220	3.91	16.00	34.42
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	580	1.86	30.02	11.63
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,890	9.24	N.A.	N.A.

SIC 24 LUMBER AND WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	140	0.44	30.26	8.84
BOILER OPERATORS AND TENDERS-LOW PRESSURE	110	0.35	29.12	5.58
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	40	0.12	36.37	2.33
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	420	1.34	34.91	13.49
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	120	0.38	31.10	4.65
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	160	0.51	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	1,900	6.10	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	4,410	14.15	N.A.	N.A.
WELDERS AND CUTTERS	140	0.44	26.43	6.05
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,540	11.37	20.87	29.30
ALL OTHER HAND WORKERS	730	2.34	N.A.	N.A.
MOTOR VEHICLE OPERATORS	1,170	3.75	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	1,060	3.40	9.42	53.95
ALL OTHER MOTOR VEHICLE OPERATORS	110	0.35	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	1,120	3.58	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	60	0.19	34.29	4.19
HOIST AND WINCH OPERATORS	40	0.12	29.41	3.72
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	820	2.63	19.38	31.16
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	200	0.64	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,770	15.30	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	1,400	4.49	40.79	20.93
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,040	3.34	40.99	22.33
HAND PACKERS AND PACKAGERS	280	0.89	35.24	8.84
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,050	6.58	N.A.	N.A.

SIC 241 LOGGING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,050	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	180	8.73	N.A.	N.A.
GENERAL MANAGERS AND TOP EXECUTIVES	180	8.73	15.64	54.55
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	110	5.33	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.97	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.97	49.42	6.82
LIFE SCIENTISTS	80	3.88	N.A.	N.A.
FORESTERS AND CONSERVATION SCIENTISTS	80	3.88	28.16	25.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	130	6.29	N.A.	N.A.
SECRETARIES	70	3.39	22.32	31.82
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.45	32.79	11.36
GENERAL OFFICE CLERKS	30	1.45	37.87	11.36
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	1,060	51.43	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	100	4.85	28.28	29.55
FALLERS AND BUCKERS	260	12.62	16.59	47.73
LOG HANDLING EQUIPMENT OPERATORS	160	7.76	25.78	36.36
LOGGING TRACTOR OPERATORS	460	22.33	13.99	75.00
FOREST AND CONSERVATION WORKERS	70	3.39	24.52	11.36
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	570	27.65	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	20	0.97	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	20	0.97	40.29	13.64
MECHANICS, INSTALLERS, AND REPAIRERS	60	2.90	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	1.45	37.48	20.45
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	30	1.45	N.A.	N.A.
MOTOR VEHICLE OPERATORS	430	20.87	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	430	20.87	9.01	75.00
MATERIAL MOVING EQUIPMENT OPERATORS	40	1.94	N.A.	N.A.
HOIST AND WINCH OPERATORS	20	0.97	44.87	6.82
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.97	N.A.	N.A.

SIC 242 SAWMILLS AND PLANING MILLS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,780	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	130	2.69	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	10	0.20	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	30	0.62	44.90	25.93
GENERAL MANAGERS AND TOP EXECUTIVES	90	1.87	20.05	85.19
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	40	0.83	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	40	0.82	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	0.62	30.22	22.22
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	250	5.15	N.A.	N.A.
SECRETARIES	60	1.24	23.19	51.85
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.62	18.19	44.44
GENERAL OFFICE CLERKS	60	1.24	36.43	44.44
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	1.02	N.A.	N.A.
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	10	0.20	32.74	14.81
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.41	14.80	22.22
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	20	0.41	28.91	29.63
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.03	N.A.	N.A.
SERVICE OCCUPATIONS	90	1.85	N.A.	N.A.
GUARDS AND WATCH GUARDS	60	1.24	23.01	40.74
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.41	30.96	22.22
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	260	5.37	N.A.	N.A.
FIRST LINE SUPERVISORS-AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.41	30.64	22.22
FALLERS AND BUCKERS	20	0.41	39.66	14.81
LOG HANDLING EQUIPMENT OPERATORS	110	2.28	24.18	48.15
LOGGING TRACTOR OPERATORS	30	0.62	47.09	18.52
LOG GRADERS AND SCALERS	60	1.24	24.34	44.44
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,970	82.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	280	5.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.20	27.13	22.22

SIC 242 SAWMILLS AND PLANING MILLS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	200	4.15	12.23	81.48
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	70	1.45	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	220	4.57	9.21	44.44
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.20	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	280	5.80	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	70	1.45	25.51	33.33
MILLWRIGHTS	40	0.83	37.91	14.81
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	2.28	34.99	44.44
AUTOMOTIVE MECHANICS	40	0.83	32.20	11.11
MOBILE HEAVY EQUIPMENT MECHANICS-EXCEPT ENGINES	20	0.41	26.33	18.52
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	0.83	N.A.	N.A.
ELECTRICIANS	40	0.83	18.16	33.33
PRECISION PRODUCTION OCCUPATIONS	40	0.82	N.A.	N.A.
MACHINISTS	10	0.20	27.01	18.52
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	30	0.62	20.33	33.33
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	0.41	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	20	0.41	N.A.	N.A.
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	600	12.44	N.A.	N.A.
SAWING MACHINE SETTERS AND SET-UP OPERATORS	20	0.41	34.55	14.81
HEAD SAWYERS	60	1.24	23.08	55.56
SAWING MACHINE OPERATORS AND TENDERS	310	6.44	13.71	77.78
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	110	2.28	18.11	33.33
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	100	2.07	38.32	18.52
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	430	8.90	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	60	1.24	24.60	37.04
BOILER OPERATORS AND TENDERS-LOW PRESSURE	60	1.24	24.04	22.22
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	20	0.41	34.32	11.11
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	30	0.62	40.79	11.11
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	10	0.20	N.A.	N.A.

SIC 242 SAWMILLS AND PLANING MILLS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	250	5.19	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	40	0.82	N.A.	N.A.
WELDERS AND CUTTERS	20	0.41	24.92	18.52
GRINDING AND POLISHING WORKERS-HAND	20	0.41	36.05	7.41
MOTOR VEHICLE OPERATORS	160	3.32	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	160	3.32	23.42	55.56
MATERIAL MOVING EQUIPMENT OPERATORS	300	6.22	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	200	4.15	10.72	55.56
CONVEYOR OPERATORS AND TENDERS	40	0.83	35.88	14.81
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	60	1.24	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,490	30.97	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	40	0.83	21.02	22.22
MACHINE FEEDERS AND OFFBEARERS	370	7.69	25.15	59.26
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	370	7.69	28.53	51.85
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	710	14.76	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	1.24	N.A.	N.A.

SIC 243 MILLWORK, PLYWOOD & STRUCTURAL MEMBERS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	15,660	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	840	5.32	N.A.	N.A.
FINANCIAL MANAGERS	50	0.31	39.14	35.85
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.12	46.63	22.64
ALL OTHER ADMINISTRATIVE MANAGERS	70	0.44	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	220	1.40	33.47	56.60
GENERAL MANAGERS AND TOP EXECUTIVES	460	2.93	30.27	83.02
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	580	3.67	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	60	0.38	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	60	0.38	45.95	30.19
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	70	0.44	40.41	30.19
COST ESTIMATORS	200	1.27	49.45	26.42
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	130	0.82	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	130	0.82	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	120	0.76	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	470	2.99	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	360	2.29	43.25	45.28
ALL OTHER SALES AND RELATED WORKERS	110	0.70	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,000	6.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.25	45.95	28.30
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	30	0.19	N.A.	N.A.
SECRETARIES	190	1.21	29.44	56.60
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	170	1.08	34.64	49.06
PAYROLL AND TIMEKEEPING CLERKS	40	0.25	48.96	28.30
GENERAL OFFICE CLERKS	80	0.51	42.50	32.08
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	0.19	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	30	0.19	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	20	0.12	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	260	1.65	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	140	0.89	45.23	35.85
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	120	0.76	N.A.	N.A.

SIC 243 MILLWORK, PLYWOOD & STRUCTURAL MEMBERS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	140	0.89	N.A.	N.A.
SERVICE OCCUPATIONS	150	0.94	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	20	0.12	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	90	0.57	48.59	30.19
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.12	N.A.	N.A.
ALL OTHER TIMBER CUTTING AND RELATED LOGGING WORKERS	20	0.12	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	12,600	80.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	790	5.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	640	4.08	22.98	67.92
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	150	0.95	N.A.	N.A.
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	260	1.65	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	370	2.34	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	180	1.14	39.95	28.30
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	20	0.12	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	170	1.08	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	160	1.02	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	160	1.02	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	2,890	18.43	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	60	0.38	N.A.	N.A.
WOOD MACHINISTS	740	4.72	46.91	37.74
CABINETMAKERS AND BENCH CARPENTERS	1,840	11.74	40.49	47.17
ALL OTHER PRECISION WOODWORKERS	250	1.59	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	80	0.51	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	80	0.51	N.A.	N.A.
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	800	5.10	N.A.	N.A.
SAWING MACHINE OPERATORS AND TENDERS	510	3.25	35.71	39.62
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	290	1.85	46.83	22.64
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,600	10.20	N.A.	N.A.

SIC 243 MILLWORK, PLYWOOD & STRUCTURAL MEMBERS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	120	0.76	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	1,480	9.44	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	2,360	15.05	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,690	10.78	41.99	43.40
ALL OTHER HAND WORKERS	670	4.27	N.A.	N.A.
MOTOR VEHICLE OPERATORS	360	2.29	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	270	1.72	30.33	50.94
ALL OTHER MOTOR VEHICLE OPERATORS	90	0.57	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	440	2.80	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	360	2.29	42.72	32.08
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	80	0.51	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,410	15.37	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,410	15.37	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	80	0.51	N.A.	N.A.

SIC 244 WOOD CONTAINERS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,530	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	150	5.85	N.A.	N.A.
FINANCIAL MANAGERS	10	0.39	14.88	19.44
INDUSTRIAL PRODUCTION MANAGERS	40	1.56	23.69	33.33
GENERAL MANAGERS AND TOP EXECUTIVES	80	3.12	14.15	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	30	1.17	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.78	38.52	13.89
SALES AND RELATED OCCUPATIONS	40	1.56	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.78	44.77	19.44
ALL OTHER SALES AND RELATED WORKERS	20	0.78	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	160	6.24	N.A.	N.A.
SECRETARIES	40	1.56	22.43	36.11
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.78	23.98	27.78
GENERAL OFFICE CLERKS	50	1.95	18.02	38.89
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	30	1.17	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	1.17	26.10	25.00
SERVICE OCCUPATIONS	20	0.78	N.A.	N.A.
GUARDS AND WATCH GUARDS	10	0.39	17.07	13.89
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.39	31.69	11.11
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.39	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,120	82.72	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	100	3.90	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	3.90	11.28	58.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	0.78	49.67	2.78
MECHANICS, INSTALLERS, AND REPAIRERS	80	3.12	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	3.12	33.14	44.44
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	130	5.07	N.A.	N.A.

SIC 244 WOOD CONTAINERS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CARPENTERS	130	5.07	36.77	19.44
PRECISION PRODUCTION OCCUPATIONS	50	1.95	N.A.	N.A.
WOOD MACHINISTS	50	1.95	35.80	8.33
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	410	16.00	N.A.	N.A.
SAWING MACHINE OPERATORS AND TENDERS	270	10.54	13.42	47.22
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	140	5.46	19.82	25.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	50	1.95	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	20	0.78	19.10	8.33
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	30	1.17	44.10	5.56
OTHER HANDWORKING OCCUPATIONS	570	22.26	N.A.	N.A.
WELDERS AND CUTTERS	70	2.73	37.38	5.56
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	500	19.53	14.74	58.33
MOTOR VEHICLE OPERATORS	130	5.07	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	130	5.07	9.25	72.22
MATERIAL MOVING EQUIPMENT OPERATORS	80	3.12	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	3.12	15.72	41.67
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	380	14.82	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	20	0.78	48.96	2.78
MACHINE FEEDERS AND OFFBEARERS	150	5.85	27.01	27.78
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	3.90	29.30	13.89
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	110	4.29	24.44	11.11
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	4.68	N.A.	N.A.

SIC 245 WOOD BUILDINGS AND MOBILE HOMES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,630	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	140	8.57	N.A.	N.A.
PURCHASING MANAGERS	10	0.61	10.85	41.18
INDUSTRIAL PRODUCTION MANAGERS	20	1.22	16.58	35.29
GENERAL MANAGERS AND TOP EXECUTIVES	60	3.68	6.10	94.12
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	50	3.06	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.61	19.49	41.18
SALES AND RELATED OCCUPATIONS	70	4.28	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	1.22	40.17	29.41
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	2.45	24.11	47.06
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	110	6.73	N.A.	N.A.
SECRETARIES	40	2.45	14.76	76.47
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	10	0.61	27.34	29.41
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	10	0.61	N.A.	N.A.
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.61	N.A.	N.A.
SERVICE OCCUPATIONS	20	1.22	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	1.22	45.67	23.53
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,240	76.01	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	30	1.84	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	30	1.84	20.92	52.94
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.61	26.04	29.41
MECHANICS, INSTALLERS, AND REPAIRERS	100	6.13	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	100	6.13	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	280	17.16	N.A.	N.A.
CARPENTERS	170	10.42	22.16	41.18

SIC 245 WOOD BUILDINGS AND MOBILE HOMES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	20	1.22	26.53	23.53
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	3.68	45.13	17.65
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	30	1.84	40.87	17.65
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	110	6.74	47.63	11.76
PRECISION PRODUCTION OCCUPATIONS	50	3.06	N.A.	N.A.
CABINETMAKERS AND BENCH CARPENTERS	30	1.84	48.29	11.76
ALL OTHER PRECISION WOODWORKERS	20	1.22	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	480	29.44	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	480	29.44	22.46	35.29
MOTOR VEHICLE OPERATORS	10	0.61	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	10	0.61	47.00	11.76
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	50	3.06	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	30	1.84	44.21	17.65
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	1.22	35.16	17.65
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	7.36	N.A.	N.A.

SIC 249 MISCELLANEOUS WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,360	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	310	7.04	N.A.	N.A.
FINANCIAL MANAGERS	10	0.22	27.27	18.42
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.45	31.93	10.53
INDUSTRIAL PRODUCTION MANAGERS	70	1.59	20.31	57.89
GENERAL MANAGERS AND TOP EXECUTIVES	180	4.10	16.73	76.32
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	120	2.70	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.45	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.45	43.82	15.79
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.22	19.34	18.42
COST ESTIMATORS	10	0.22	28.16	13.16
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.45	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.45	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	1.36	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	150	3.41	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	0.68	43.63	7.89
ALL OTHER SALES AND RELATED WORKERS	120	2.73	49.31	2.63
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	410	9.28	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.22	29.98	15.79
SECRETARIES	100	2.27	24.28	52.63
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.13	26.24	39.47
PAYROLL AND TIMEKEEPING CLERKS	10	0.22	21.98	13.16
GENERAL OFFICE CLERKS	50	1.13	24.55	36.84
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	150	3.40	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.22	30.86	7.89
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	140	3.18	34.98	26.32
SERVICE OCCUPATIONS	30	0.67	N.A.	N.A.
GUARDS AND WATCH GUARDS	10	0.22	30.80	10.53
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.45	34.90	13.16
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	30	0.67	N.A.	N.A.

SIC 249 MISCELLANEOUS WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
LOG HANDLING EQUIPMENT OPERATORS	20	0.45	30.67	10.53
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,310	75.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	170	3.86	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.22	10.51	15.79
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	160	3.64	14.26	73.68
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	0.68	46.12	7.89
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	20	0.45	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	140	3.18	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	60	1.36	32.01	23.68
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	0.91	18.92	23.68
MOBILE HEAVY EQUIPMENT MECHANICS-EXCEPT ENGINES	40	0.91	40.07	7.89
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.68	N.A.	N.A.
ELECTRICIANS	30	0.68	35.80	10.53
PRECISION PRODUCTION OCCUPATIONS	240	5.46	N.A.	N.A.
FURNITURE FINISHERS	60	1.36	36.31	2.63
ALL OTHER PRECISION WOODWORKERS	180	4.10	N.A.	N.A.
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	10	0.22	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	10	0.22	49.81	5.26
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	40	0.91	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	40	0.91	36.13	2.63
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	260	5.91	N.A.	N.A.
SAWING MACHINE SETTERS AND SET-UP OPERATORS	50	1.13	35.03	13.16
SAWING MACHINE OPERATORS AND TENDERS	120	2.73	32.07	34.21
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	90	2.05	45.43	23.68
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	700	15.92	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	230	5.23	24.05	39.47
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	40	0.91	32.94	10.53
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	70	1.59	42.06	10.53
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	280	6.37	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	80	1.82	N.A.	N.A.

SIC 249 MISCELLANEOUS WOOD PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	890	20.26	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	870	19.81	18.90	34.21
ALL OTHER HAND WORKERS	20	0.45	45.67	5.26
MOTOR VEHICLE OPERATORS	60	1.36	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	60	1.36	30.44	34.21
MATERIAL MOVING EQUIPMENT OPERATORS	240	5.46	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	30	0.68	29.12	10.53
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	170	3.87	17.62	44.74
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	40	0.91	45.64	5.26
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	430	9.78	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	90	2.05	26.29	15.79
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	2.27	33.62	28.95
HAND PACKERS AND PACKAGERS	90	2.05	22.72	18.42
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	150	3.41	31.33	15.79

INDUSTRY CHARACTERISTICS

SIC 25 - FURNITURE AND FIXTURES

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures.

SIC 251 - HOUSEHOLD FURNITURE

Establishments that are primarily engaged in manufacturing wood household furniture commonly used in dwellings; upholstered furniture on wood frames; metal household furniture of a type commonly used in dwellings; mattresses, foundations, and convertible beds; wood television, radio, phonograph, and sewing machine cabinets; and household furniture, not elsewhere classified, are in this industry.

SIC 252 - OFFICE FURNITURE

This industry group includes establishments primarily engaged in manufacturing wood office furniture; and office furniture, except wood.

SIC 253 - PUBLIC BUILDING AND RELATED FURNITURE

This industry group includes establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, libraries; and seats for public conveyances, as well as seats for automobiles and aircraft.

SIC 254 - PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES

Establishments that are primarily engaged in manufacturing wood office and store fixtures, partitions, shelving, and lockers, either chiefly of wood or materials other than wood are in this industry.

SIC 25 FURNITURE AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	16,010	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	960	5.92	N.A.	N.A.
FINANCIAL MANAGERS	60	0.37	14.23	20.00
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.24	20.28	13.08
PURCHASING MANAGERS	30	0.18	12.24	16.92
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	80	0.49	12.72	20.00
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.18	17.92	9.23
INDUSTRIAL PRODUCTION MANAGERS	200	1.24	9.97	43.85
GENERAL MANAGERS AND TOP EXECUTIVES	480	2.98	6.74	81.54
ALL OTHER MANAGERS AND ADMINISTRATORS	30	0.18	30.40	5.38
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	460	2.81	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	90	0.55	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	70	0.43	16.18	21.54
ALL OTHER FINANCIAL SPECIALISTS	20	0.12	28.76	3.08
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	60	0.37	14.09	23.08
COST ESTIMATORS	40	0.24	18.27	13.08
ENGINEERS	20	0.12	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.12	15.71	7.69
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	140	0.86	N.A.	N.A.
DRAFTERS	100	0.62	18.00	17.69
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	40	0.24	20.86	3.85
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	40	0.24	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	10	0.06	25.21	3.08
COMPUTER PROGRAMMERS	20	0.12	16.53	6.92
COMPUTER PROGRAMMER AIDES	10	0.06	25.88	3.85
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.12	44.21	3.85
SALES AND RELATED OCCUPATIONS	480	2.97	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	0.18	25.67	6.92
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.24	49.21	5.38
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	360	2.24	12.00	34.62
ALL OTHER SALES AND RELATED WORKERS	50	0.31	26.47	3.85
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,690	10.40	N.A.	N.A.

SIC 25 FURNITURE AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	70	0.43	14.60	22.31
ADJUSTMENT CLERKS	110	0.68	24.32	13.08
SECRETARIES	220	1.36	10.60	42.31
RECEPTIONISTS AND INFORMATION CLERKS	40	0.24	14.54	16.15
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.12	39.75	3.85
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.12	18.59	6.92
FILE CLERKS	10	0.06	31.06	3.85
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	80	0.49	21.46	11.54
PROCUREMENT CLERKS	10	0.06	18.43	4.62
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	210	1.30	9.57	52.31
PAYROLL AND TIMEKEEPING CLERKS	40	0.24	18.48	16.15
BILLING, COST AND RATE CLERKS	30	0.18	20.41	10.00
GENERAL OFFICE CLERKS	240	1.49	12.90	41.54
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	40	0.24	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.12	21.99	5.38
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.12	24.52	7.69
SWITCHBOARD OPERATORS	30	0.18	15.99	13.85
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	490	3.03	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.37	16.59	11.54
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	80	0.49	21.72	10.77
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	350	2.17	9.90	46.92
SERVICE OCCUPATIONS	170	1.04	N.A.	N.A.
GUARDS AND WATCH GUARDS	30	0.18	30.16	3.08
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	120	0.74	9.90	31.54
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	12,250	75.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	800	4.95	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	30	0.18	11.49	9.23
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	700	4.35	5.74	63.85
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.12	20.23	6.92
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	30	0.18	16.14	4.62
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.12	38.78	3.08

SIC 25 FURNITURE AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	140	0.87	11.90	13.85
MECHANICS, INSTALLERS, AND REPAIRERS	190	1.17	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	80	0.49	8.15	10.00
MACHINERY MAINTENANCE WORKERS	20	0.12	25.45	4.62
MAINTENANCE REPAIRERS-GENERAL UTILITY	90	0.56	13.61	20.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	120	0.74	N.A.	N.A.
CARPENTERS	120	0.74	24.11	11.54
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	90	0.56	37.99	1.54
PRECISION PRODUCTION OCCUPATIONS	2,380	14.76	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.12	13.61	5.38
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	0.12	33.88	3.85
ALL OTHER PRECISION METAL WORKERS	70	0.43	N.A.	N.A.
PATTERN AND MODEL MAKERS-WOOD	20	0.12	33.23	3.85
WOOD MACHINISTS	560	3.48	19.88	24.62
CABINETMAKERS AND BENCH CARPENTERS	730	4.54	13.68	28.46
FURNITURE FINISHERS	260	1.61	15.33	20.77
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	70	0.43	17.92	8.46
UPHOLSTERERS	570	3.54	13.33	22.31
ALL OTHER PRECISION WORKERS	60	0.37	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	120	0.74	N.A.	N.A.
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	30	0.18	31.88	4.62
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	90	0.56	44.97	4.62
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	760	4.72	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	90	0.56	19.22	10.77
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	150	0.93	17.11	12.31
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.18	34.86	5.38
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	490	3.05	24.55	12.31
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	140	0.86	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	100	0.62	31.42	7.69
WELDING MACHINE OPERATORS AND TENDERS	40	0.24	37.28	3.08

SIC 25 FURNITURE AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	110	0.68	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	110	0.68	0.00	1.54
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	470	2.90	N.A.	N.A.
SAWING MACHINE SETTERS AND SET-UP OPERATORS	20	0.12	23.42	6.92
SAWING MACHINE OPERATORS AND TENDERS	160	0.99	18.96	12.31
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	80	0.49	18.13	6.92
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	210	1.30	24.19	10.00
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	860	5.34	N.A.	N.A.
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	40	0.24	28.36	4.62
SEWING MACHINE OPERATORS-NON-GARMENT	820	5.10	8.26	36.15
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	680	4.20	N.A.	N.A.
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	60	0.37	44.64	3.85
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	40	0.24	47.49	5.38
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	310	1.93	18.39	18.46
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	50	0.31	17.19	7.69
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	60	0.37	25.23	2.31
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	80	0.49	13.85	7.69
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.12	24.21	2.31
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	60	0.37	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	3,730	23.20	N.A.	N.A.
GLAZIERS-MANUFACTURING	20	0.12	39.00	1.54
WELDERS AND CUTTERS	470	2.92	19.47	12.31
CUTTERS AND TRIMMERS-HAND	250	1.55	22.98	16.15
PAINTING, COATING, AND DECORATING WORKERS-HAND	100	0.62	29.97	7.69
GRINDING AND POLISHING WORKERS-HAND	180	1.12	19.42	10.77
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	2,620	16.31	8.11	53.85
ALL OTHER HAND WORKERS	90	0.56	33.41	4.62
MOTOR VEHICLE OPERATORS	350	2.17	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	230	1.43	12.89	26.15
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	120	0.74	17.69	23.85

SIC 25 FURNITURE AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL MOVING EQUIPMENT OPERATORS	180	1.11	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	150	0.93	21.32	7.69
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.18	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,060	6.58	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	40	0.24	47.37	3.08
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	320	1.99	15.43	18.46
HAND PACKERS AND PACKAGERS	270	1.68	20.37	16.92
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	430	2.67	24.98	8.46
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	70	0.43	N.A.	N.A.

SIC 251 HOUSEHOLD FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	6,710	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	350	5.17	N.A.	N.A.
FINANCIAL MANAGERS	20	0.29	21.29	17.39
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.29	36.32	17.39
PURCHASING MANAGERS	20	0.29	16.01	23.91
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.44	16.71	26.09
INDUSTRIAL PRODUCTION MANAGERS	60	0.89	18.91	39.13
GENERAL MANAGERS AND TOP EXECUTIVES	180	2.68	11.35	76.09
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	80	1.16	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.29	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.29	40.68	13.04
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.29	26.48	15.22
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.14	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.14	0.00	2.17
SALES AND RELATED OCCUPATIONS	130	1.93	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	90	1.34	32.46	19.57
ALL OTHER SALES AND RELATED WORKERS	40	0.59	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	650	9.62	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.29	21.83	19.57
ADJUSTMENT CLERKS	30	0.44	28.57	13.04
SECRETARIES	90	1.34	21.16	39.13
RECEPTIONISTS AND INFORMATION CLERKS	20	0.29	19.40	23.91
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.29	29.58	13.04
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	1.19	18.84	50.00
PAYROLL AND TIMEKEEPING CLERKS	30	0.44	26.60	28.26
BILLING, COST AND RATE CLERKS	10	0.14	26.59	13.04
GENERAL OFFICE CLERKS	110	1.64	22.31	41.30
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	190	2.82	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	0.59	18.31	17.39
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	150	2.23	15.08	50.00
SERVICE OCCUPATIONS	90	1.32	N.A.	N.A.

SIC 251 HOUSEHOLD FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GUARDS AND WATCH GUARDS	20	0.29	25.36	4.35
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	60	0.89	13.66	43.48
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	5,410	80.54	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	290	4.31	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	270	4.02	10.21	67.39
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.29	20.94	8.70
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	110	1.64	13.67	19.57
MECHANICS, INSTALLERS, AND REPAIRERS	80	1.18	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	0.59	11.30	10.87
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	0.59	22.33	19.57
PRECISION PRODUCTION OCCUPATIONS	1,090	16.23	N.A.	N.A.
WOOD MACHINISTS	310	4.62	33.00	26.09
CABINETMAKERS AND BENCH CARPENTERS	180	2.68	25.40	17.39
FURNITURE FINISHERS	50	0.74	44.52	17.39
ALL OTHER PRECISION WOODWORKERS	30	0.44	34.85	4.35
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	40	0.59	23.52	13.04
UPHOLSTERERS	480	7.16	15.22	41.30
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	60	0.89	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	60	0.89	0.00	4.35
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	3.27	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	70	1.04	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	150	2.23	0.00	2.17
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	140	2.08	N.A.	N.A.
SAWING MACHINE OPERATORS AND TENDERS	90	1.34	19.56	17.39
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	50	0.74	19.76	8.70
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	600	8.94	N.A.	N.A.
TEXTILE MACHINE OPERATORS AND TENDERS-WINDING, TWISTING, KNITTING, WEAVING, AND CUTTING	40	0.59	29.93	10.87
SEWING MACHINE OPERATORS-NON-GARMENT	560	8.35	9.91	56.52

SIC 251 HOUSEHOLD FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	210	3.11	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.29	25.92	8.70
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	60	0.89	13.10	15.22
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	40	0.59	24.21	6.52
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	90	1.34	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	1,640	24.44	N.A.	N.A.
WELDERS AND CUTTERS	80	1.19	22.48	8.70
CUTTERS AND TRIMMERS-HAND	140	2.08	22.64	26.09
PAINTING, COATING, AND DECORATING WORKERS-HAND	70	1.04	41.02	8.70
GRINDING AND POLISHING WORKERS-HAND	60	0.89	32.04	8.70
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,240	18.50	12.65	67.39
ALL OTHER HAND WORKERS	50	0.74	21.54	6.52
MOTOR VEHICLE OPERATORS	240	3.57	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	180	2.68	14.17	47.83
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	60	0.89	27.06	28.26
MATERIAL MOVING EQUIPMENT OPERATORS	100	1.49	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	100	1.49	22.79	13.04
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	540	8.05	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	110	1.64	0.00	2.17
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	120	1.79	15.41	21.74
HAND PACKERS AND PACKAGERS	100	1.49	28.35	19.57
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	210	3.13	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	90	1.34	N.A.	N.A.

SIC 252 OFFICE FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,860	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	130	6.89	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	1.59	26.10	33.33
INDUSTRIAL PRODUCTION MANAGERS	20	1.06	23.43	53.33
GENERAL MANAGERS AND TOP EXECUTIVES	50	2.65	16.09	80.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	120	6.36	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	1.06	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.53	29.59	40.00
ALL OTHER FINANCIAL SPECIALISTS	10	0.53	33.75	13.33
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.53	27.26	40.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	1.06	N.A.	N.A.
DRAFTERS	20	1.06	33.18	40.00
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	1.06	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	1.06	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	1.06	47.77	26.67
SALES AND RELATED OCCUPATIONS	50	2.65	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	1.59	32.18	33.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	310	16.43	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.53	21.52	40.00
ADJUSTMENT CLERKS	50	2.65	40.21	40.00
SECRETARIES	20	1.06	29.44	33.33
FILE CLERKS	10	0.53	35.64	20.00
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	1.59	38.05	20.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.59	15.37	73.33
GENERAL OFFICE CLERKS	40	2.12	27.40	60.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	80	4.24	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	1.06	34.98	26.67
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	2.65	17.46	66.67
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.53	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.53	N.A.	N.A.

SIC 252 OFFICE FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.53	22.75	40.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,240	65.85	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	70	3.72	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	3.19	12.94	73.33
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	10	0.53	48.23	13.33
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.53	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	10	0.53	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	340	18.06	N.A.	N.A.
WOOD MACHINISTS	50	2.65	40.67	46.67
CABINETMAKERS AND BENCH CARPENTERS	140	7.44	26.73	66.67
FURNITURE FINISHERS	70	3.72	16.89	53.33
FABRIC AND APPAREL PATTERNMAKERS, AND LAYOUT OCCUPATIONS	20	1.06	36.32	20.00
UPHOLSTERERS	60	3.19	30.16	33.33
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	1.06	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	20	1.06	41.22	13.33
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.53	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.53	37.88	20.00
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	130	6.90	N.A.	N.A.
SAWING MACHINE OPERATORS AND TENDERS	20	1.06	46.92	20.00
WOODWORKING MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT SAWING	10	0.53	34.07	20.00
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	100	5.31	41.87	33.33
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	50	2.65	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	50	2.65	23.58	33.33
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	70	3.71	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	1.06	21.90	33.33
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	30	1.59	28.98	33.33
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	1.06	N.A.	N.A.

SIC 252 OFFICE FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	380	20.19	N.A.	N.A.
WELDERS AND CUTTERS	30	1.59	44.71	20.00
CUTTERS AND TRIMMERS-HAND	10	0.53	48.57	13.33
GRINDING AND POLISHING WORKERS-HAND	30	1.59	36.33	26.67
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	310	16.48	29.04	80.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	50	2.65	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	30	1.59	29.25	20.00
HAND PACKERS AND PACKAGERS	20	1.06	39.96	26.67
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	110	5.85	N.A.	N.A.

SIC 253 PUBLIC BUILDING & RELATED FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,630	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	180	4.88	N.A.	N.A.
FINANCIAL MANAGERS	20	0.54	21.70	42.11
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.27	18.74	26.32
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.54	30.84	26.32
INDUSTRIAL PRODUCTION MANAGERS	50	1.36	17.58	78.95
GENERAL MANAGERS AND TOP EXECUTIVES	60	1.63	14.74	84.21
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	160	4.34	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.27	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.27	32.58	21.05
COST ESTIMATORS	20	0.54	28.13	36.84
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	70	1.90	N.A.	N.A.
DRAFTERS	50	1.36	32.20	47.37
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.54	39.96	15.79
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	1.63	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	100	2.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.54	32.40	26.32
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	1.63	27.42	57.89
ALL OTHER SALES AND RELATED WORKERS	20	0.54	18.40	10.53
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	320	8.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.54	29.16	42.11
ADJUSTMENT CLERKS	10	0.27	41.50	21.05
SECRETARIES	50	1.36	13.86	57.89
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.54	43.79	15.79
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.81	15.83	57.89
BILLING, COST AND RATE CLERKS	10	0.27	38.54	21.05
GENERAL OFFICE CLERKS	20	0.54	27.22	42.11
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	80	2.17	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.54	24.27	21.05
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	1.63	30.76	47.37
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	2.17	N.A.	N.A.

SIC 253 PUBLIC BUILDING & RELATED FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SERVICE OCCUPATIONS	40	1.08	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.27	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.54	27.97	26.32
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,830	76.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	180	4.90	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	180	4.90	12.24	84.21
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.27	46.96	15.79
MECHANICS, INSTALLERS, AND REPAIRERS	40	1.08	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	20	0.54	15.73	26.32
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.54	22.01	31.58
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	50	1.36	N.A.	N.A.
CARPENTERS	50	1.36	40.11	21.05
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	50	1.36	40.58	5.26
PRECISION PRODUCTION OCCUPATIONS	160	4.33	N.A.	N.A.
WOOD MACHINISTS	60	1.63	31.23	21.05
CABINETMAKERS AND BENCH CARPENTERS	40	1.08	39.66	26.32
FURNITURE FINISHERS	40	1.08	32.88	21.05
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	20	0.54	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.54	N.A.	N.A.
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	20	0.54	40.34	21.05
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	370	10.06	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.81	27.17	26.32
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	1.08	46.92	26.32
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	300	8.17	36.53	26.32
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	90	2.44	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	70	1.90	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	20	0.54	N.A.	N.A.

SIC 253 PUBLIC BUILDING & RELATED FURNITURE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.27	N.A.	N.A.
SAWING MACHINE SETTERS AND SET-UP OPERATORS	10	0.27	30.99	15.79
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	130	3.54	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	130	3.54	19.00	31.58
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	400	10.87	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	180	4.90	25.00	42.11
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	20	0.54	14.43	21.05
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	60	1.63	26.01	10.53
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	80	2.17	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	60	1.63	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	760	20.69	N.A.	N.A.
WELDERS AND CUTTERS	250	6.81	31.26	21.05
CUTTERS AND TRIMMERS-HAND	30	0.81	41.88	15.79
PAINTING, COATING, AND DECORATING WORKERS-HAND	20	0.54	38.75	15.79
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	460	12.53	17.98	42.11
MOTOR VEHICLE OPERATORS	50	1.35	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	40	1.08	38.27	36.84
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.27	29.40	31.58
MATERIAL MOVING EQUIPMENT OPERATORS	70	1.90	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	70	1.90	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	320	8.70	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	120	3.26	36.10	36.84
HAND PACKERS AND PACKAGERS	90	2.45	45.25	21.05
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	110	2.99	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	3.26	N.A.	N.A.

SIC 254 PARTITIONS AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,400	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	200	8.21	N.A.	N.A.
FINANCIAL MANAGERS	10	0.41	41.11	22.22
INDUSTRIAL PRODUCTION MANAGERS	50	2.05	22.75	44.44
GENERAL MANAGERS AND TOP EXECUTIVES	120	4.93	13.45	88.89
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	80	3.28	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.41	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.41	22.30	25.93
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.82	28.23	33.33
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	1.23	N.A.	N.A.
DRAFTERS	30	1.23	22.16	29.63
SALES AND RELATED OCCUPATIONS	120	4.93	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	120	4.93	17.75	48.15
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	200	8.20	N.A.	N.A.
SECRETARIES	30	1.23	13.96	44.44
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	1.64	22.35	48.15
GENERAL OFFICE CLERKS	40	1.64	26.44	37.04
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	60	2.46	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.64	27.57	37.04
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.82	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.82	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.82	28.35	25.93
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,780	73.13	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	150	6.17	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.41	9.44	11.11
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	140	5.76	9.52	55.56
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	0.82	37.46	11.11

SIC 254 PARTITIONS AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	20	0.82	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	10	0.41	0.00	3.70
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.41	28.48	18.52
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	1.64	N.A.	N.A.
CARPENTERS	40	1.64	43.00	14.81
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	40	1.64	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	660	27.13	N.A.	N.A.
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	0.82	43.83	7.41
ALL OTHER PRECISION METAL WORKERS	60	2.46	N.A.	N.A.
WOOD MACHINISTS	120	4.93	23.25	25.93
CABINETMAKERS AND BENCH CARPENTERS	350	14.40	22.10	48.15
FURNITURE FINISHERS	110	4.52	26.94	25.93
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	180	7.40	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	80	3.29	19.26	18.52
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	100	4.11	46.53	18.52
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	20	0.82	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	20	0.82	3.86	7.41
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	70	2.87	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	30	1.23	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	40	1.64	0.00	3.70
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	40	1.64	N.A.	N.A.
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	40	1.64	20.08	7.41
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	100	4.10	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	50	2.05	31.85	22.22
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	50	2.05	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	160	6.57	N.A.	N.A.
GLAZIERS-MANUFACTURING	20	0.82	39.00	7.41
GRINDING AND POLISHING WORKERS-HAND	50	2.05	42.44	11.11
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	90	3.70	37.21	18.52

SIC 254 PARTITIONS AND FIXTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MOTOR VEHICLE OPERATORS	30	1.23	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	10	0.41	28.74	14.81
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.82	37.22	18.52
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	40	1.64	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	1.64	15.96	11.11
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	210	8.64	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 26 - PAPER AND ALLIED PRODUCTS

This major group includes establishments primarily engaged in the manufacture of pulps from wood and other cellulose fibers, and from rags; paper and paperboard; paper and paperboard into converted products, such as paper coated off the paper machine, paper bags, paper boxes, and envelopes; and bags of plastics film and sheet.

SIC 262 - PAPER MILLS

Establishments that are primarily engaged in manufacturing paper from wood pulp and other fiber pulp, and which may also manufacture converted paper products are in this industry.

SIC 263 - PAPERBOARD MILLS

This industry group includes establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from wood pulp and other fiber pulp; and which may also manufacture converted paperboard products.

SIC 265 - PAPERBOARD CONTAINERS AND BOXES

This industry group includes establishments primarily engaged in manufacturing setup paperboard boxes from purchased paperboard; corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock; fiber cans, tubes, drums, and similar products, with or without metal ends, and vulcanized fiber boxes; sanitary food containers, except folding; and folding paperboard boxes from purchased paperboard, including folding sanitary food boxes or cartons except milk cartons.

SIC 267 - CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

Establishments that are primarily engaged in manufacturing packaging paper and plastics film, coated and laminated; coated and laminated paper, not elsewhere classified; plastics, foil, and coated paper bags; uncoated paper and multiwall bags; die-cut paper and paperboard and cardboard; sanitary paper products; envelopes; stationery, tablets, and related products; and converted paper and paperboard products, not elsewhere classified, are in this industry.

SIC 26 PAPER AND ALLIED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	24,160	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	820	3.35	N.A.	N.A.
FINANCIAL MANAGERS	60	0.24	17.19	41.38
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.16	16.16	34.48
PURCHASING MANAGERS	20	0.08	41.06	24.14
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	50	0.20	20.97	25.86
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.16	21.96	22.41
INDUSTRIAL PRODUCTION MANAGERS	220	0.91	12.81	55.17
GENERAL MANAGERS AND TOP EXECUTIVES	340	1.40	13.72	77.59
ALL OTHER MANAGERS AND ADMINISTRATORS	40	0.16	13.80	15.52
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	890	3.60	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	120	0.49	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	100	0.41	19.68	34.48
ALL OTHER FINANCIAL SPECIALISTS	20	0.08	42.68	8.62
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	90	0.37	21.85	32.76
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	40	0.16	16.45	22.41
COST ESTIMATORS	70	0.29	26.85	25.86
ALL OTHER MANAGEMENT SUPPORT WORKERS	40	0.16	26.00	17.24
ENGINEERS	170	0.68	N.A.	N.A.
CHEMICAL ENGINEERS	30	0.12	0.00	10.34
ELECTRICAL AND ELECTRONIC ENGINEERS	20	0.08	13.85	12.07
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	30	0.12	30.23	12.07
MECHANICAL ENGINEERS	40	0.16	10.35	17.24
ALL OTHER ENGINEERS	50	0.20	8.66	10.34
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	100	0.40	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.12	23.93	17.24
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.04	41.91	5.17
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.04	7.25	6.90
DRAFTERS	20	0.08	18.23	15.52
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.12	27.48	10.34
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.16	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	30	0.12	14.59	8.62
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.04	0.00	3.45
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	30	0.12	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	10	0.04	0.00	10.34

SIC 26 PAPER AND ALLIED PRODUCTS
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
COMPUTER PROGRAMMERS	20	0.08	21.32	15.52
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	20	0.08	25.73	12.07
DESIGNERS-EXCEPT INTERIOR DESIGNERS	110	0.45	23.44	24.14
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	0.24	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,000	4.13	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	100	0.41	41.36	27.59
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	70	0.29	29.74	10.34
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	660	2.73	17.92	55.17
ALL OTHER SALES AND RELATED WORKERS	170	0.70	45.63	20.69
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,060	8.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	0.74	19.19	46.55
ADJUSTMENT CLERKS	90	0.37	25.46	20.69
SECRETARIES	300	1.24	10.10	60.34
RECEPTIONISTS AND INFORMATION CLERKS	60	0.24	26.16	32.76
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.04	12.39	5.17
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	30	0.12	29.63	22.41
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	110	0.45	26.77	27.59
PROCUREMENT CLERKS	20	0.08	25.93	15.52
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	190	0.78	16.30	44.83
PAYROLL AND TIMEKEEPING CLERKS	40	0.16	18.29	29.31
BILLING, COST AND RATE CLERKS	40	0.16	17.05	20.69
GENERAL OFFICE CLERKS	160	0.66	17.78	39.66
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	0.24	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.12	29.77	18.97
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.12	41.97	22.41
SWITCHBOARD OPERATORS	30	0.12	20.03	22.41
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	670	2.75	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	140	0.58	17.10	43.10
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	30	0.12	47.20	8.62
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	120	0.49	11.64	32.76
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	340	1.40	22.99	67.24
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	40	0.16	39.69	12.07

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.29	N.A.	N.A.
SERVICE OCCUPATIONS	300	1.23	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.08	28.08	8.62
GUARDS AND WATCH GUARDS	80	0.33	25.36	12.07
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	170	0.70	18.71	46.55
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	40	0.16	N.A.	N.A.
LOG HANDLING EQUIPMENT OPERATORS	40	0.16	0.00	1.72
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	19,050	78.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,200	4.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	140	0.58	13.14	36.21
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	20	0.08	18.89	5.17
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	910	3.77	7.53	77.59
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	70	0.29	22.60	31.03
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	0.24	7.31	22.41
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	520	2.15	14.51	37.93
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.04	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	1,560	6.45	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	350	1.45	N.A.	N.A.
MILLWRIGHTS	150	0.62	39.56	6.90
MACHINERY MAINTENANCE WORKERS	150	0.62	13.86	22.41
MAINTENANCE REPAIRERS-GENERAL UTILITY	730	3.02	9.18	56.90
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	40	0.16	14.74	10.34
PRECISION INSTRUMENT REPAIRERS	70	0.29	20.04	5.17
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	70	0.29	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	370	1.52	N.A.	N.A.
CARPENTERS	30	0.12	45.53	6.90
ELECTRICIANS	260	1.07	12.84	31.03
ALL OTHER PLUMBING AND RELATED WORKERS	80	0.33	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	190	0.78	N.A.	N.A.

SIC 26 PAPER AND ALLIED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINISTS	70	0.29	31.18	15.52
ALL OTHER PRECISION METAL WORKERS	30	0.12	N.A.	N.A.
ALL OTHER PRECISION PRINTING WORKERS	10	0.04	N.A.	N.A.
ALL OTHER PRECISION WORKERS	80	0.33	42.32	12.07
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	30	0.12	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	30	0.12	29.34	6.90
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	10	0.04	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	10	0.04	0.00	1.72
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	1,230	5.08	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	150	0.62	38.97	15.52
SPECIALTY MATERIALS PRINTING MACHINE SETTERS AND SET-UP OPERATORS	270	1.11	37.65	17.24
ALL OTHER PRINTING RELATED SETTERS AND SET-UP OPERATORS	160	0.66	48.84	8.62
PRINTING PRESS MACHINE OPERATORS AND TENDERS	650	2.69	23.51	25.86
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	7,170	29.64	N.A.	N.A.
PAPER GOODS MACHINE SETTERS AND SET-UP OPERATORS	1,880	7.79	19.97	41.38
BOILER OPERATORS AND TENDERS-LOW PRESSURE	90	0.37	10.79	12.07
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	90	0.37	19.84	6.90
CHEMICAL EQUIPMENT TENDERS	20	0.08	44.65	3.45
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	130	0.53	38.72	15.52
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	600	2.48	19.77	37.93
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	220	0.91	22.60	15.52
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	340	1.40	30.98	20.69
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	60	0.24	3.37	6.90
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	360	1.49	23.00	12.07
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	30	0.12	46.38	3.45
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	800	3.31	17.62	29.31
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	500	2.07	40.22	22.41
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	390	1.61	21.10	17.24
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	1,660	6.87	12.87	34.48
OTHER HANDWORKING OCCUPATIONS	760	3.13	N.A.	N.A.
WELDERS AND CUTTERS	80	0.33	24.28	8.62

SIC 26 PAPER AND ALLIED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTERS AND TRIMMERS-HAND	20	0.08	20.29	3.45
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	410	1.69	49.70	17.24
ALL OTHER HAND WORKERS	250	1.03	23.79	10.34
PLANT AND SYSTEM OCCUPATIONS	70	0.28	N.A.	N.A.
CHEMICAL PLANT AND SYSTEM OPERATORS	10	0.04	49.62	1.72
POWER DISTRIBUTORS AND DISPATCHERS	20	0.08	0.00	3.45
ALL OTHER PLANT AND SYSTEM OPERATORS	40	0.16	7.81	3.45
MOTOR VEHICLE OPERATORS	670	2.77	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	650	2.69	11.73	55.17
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.08	44.56	12.07
MATERIAL MOVING EQUIPMENT OPERATORS	990	4.09	N.A.	N.A.
CRANE AND TOWER OPERATORS	30	0.12	9.28	5.17
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	720	2.98	13.24	43.10
CONVEYOR OPERATORS AND TENDERS	100	0.41	26.98	10.34
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	140	0.58	44.94	8.62
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,090	16.92	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	50	0.20	30.15	12.07
MACHINE FEEDERS AND OFFBEARERS	1,510	6.25	15.76	37.93
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	520	2.15	8.82	43.10
HAND PACKERS AND PACKAGERS	840	3.48	26.74	25.86
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,170	4.84	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	180	0.74	N.A.	N.A.

SIC 262 PAPER MILLS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,050	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	60	1.96	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	30	0.98	43.75	50.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	70	2.29	N.A.	N.A.
ENGINEERS	20	0.65	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.65	49.62	25.00
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	1.64	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	10	0.32	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	150	4.90	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30	0.98	45.84	50.00
SECRETARIES	20	0.65	48.23	50.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	40	1.30	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.32	43.58	50.00
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	30	0.98	49.55	25.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.97	N.A.	N.A.
SERVICE OCCUPATIONS	60	1.96	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	20	0.65	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,700	88.63	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	120	3.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	1.31	33.50	75.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	1.97	38.15	75.00
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.65	16.29	75.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	50	1.64	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	330	10.83	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	20	0.65	49.62	25.00
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.65	23.65	25.00

SIC 262 PAPER MILLS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAINTENANCE REPAIRERS-GENERAL UTILITY	120	3.94	35.38	0.00
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	170	5.59	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.98	N.A.	N.A.
ALL OTHER PLUMBING AND RELATED WORKERS	30	0.98	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	90	2.96	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	20	0.65	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	20	0.65	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	20	0.65	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	20	0.65	49.62	25.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,020	33.49	N.A.	N.A.
PAPER GOODS MACHINE SETTERS AND SET-UP OPERATORS	20	0.65	49.62	25.00
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	40	1.31	49.62	25.00
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	20	0.65	49.62	25.00
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.65	49.62	25.00
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	40	1.31	4.77	75.00
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	30	0.98	36.51	50.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	200	6.57	29.66	75.00
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	60	1.97	23.62	25.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	590	19.40	33.55	50.00
PLANT AND SYSTEM OCCUPATIONS	30	0.97	N.A.	N.A.
CHEMICAL PLANT AND SYSTEM OPERATORS	10	0.32	49.62	25.00
ALL OTHER PLANT AND SYSTEM OPERATORS	20	0.65	23.44	25.00
MOTOR VEHICLE OPERATORS	120	3.94	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	120	3.94	21.08	75.00
MATERIAL MOVING EQUIPMENT OPERATORS	100	3.28	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	1.31	45.44	50.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	60	1.97	38.44	50.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	670	22.03	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	0.65	1.42	50.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	650	21.38	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	3.28	N.A.	N.A.

SIC 263 PAPERBOARD MILLS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,690	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	70	2.59	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	20	0.74	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	0.74	0.00	0.00
ALL OTHER MANAGERS AND ADMINISTRATORS	30	1.11	0.00	66.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	170	6.29	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.37	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.37	0.00	0.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.37	0.00	0.00
ENGINEERS	20	0.74	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.74	0.00	0.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.74	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.74	0.00	33.33
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.37	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	10	0.37	0.00	33.33
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	100	3.70	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	10	0.37	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.37	0.00	33.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	6.66	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.37	0.00	0.00
SECRETARIES	40	1.48	0.00	0.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.74	0.00	0.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	30	1.11	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	1.11	0.00	0.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	2.96	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.74	N.A.	N.A.
GUARDS AND WATCH GUARDS	10	0.37	0.00	33.33
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	40	1.48	N.A.	N.A.
LOG HANDLING EQUIPMENT OPERATORS	40	1.48	0.00	33.33

SIC 263 PAPERBOARD MILLS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,200	81.42	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	200	7.40	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	1.48	0.00	0.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	10	0.37	0.00	66.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	130	4.81	0.00	0.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.74	0.00	0.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	2.59	0.00	0.00
MECHANICS, INSTALLERS, AND REPAIRERS	310	11.47	N.A.	N.A.
MILLWRIGHTS	60	2.22	0.00	33.33
MACHINERY MAINTENANCE WORKERS	20	0.74	0.00	33.33
MAINTENANCE REPAIRERS-GENERAL UTILITY	190	7.03	0.00	66.67
PRECISION INSTRUMENT REPAIRERS	40	1.48	0.00	66.67
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	130	4.81	N.A.	N.A.
ELECTRICIANS	90	3.33	0.00	66.67
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	40	1.48	0.00	33.33
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	20	0.74	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	20	0.74	0.00	33.33
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	970	35.91	N.A.	N.A.
BOILER OPERATORS AND TENDERS-LOW PRESSURE	70	2.59	0.00	0.00
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	50	1.85	0.00	66.67
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	20	0.74	0.00	33.33
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.74	0.00	33.33
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	20	0.74	0.00	33.33
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	40	1.48	0.00	33.33
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	70	2.59	0.00	66.67
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	40	1.48	0.00	33.33
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	640	23.70	0.00	0.00

SIC 263 PAPERBOARD MILLS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	40	1.48	N.A.	N.A.
WELDERS AND CUTTERS	40	1.48	0.00	33.33
PLANT AND SYSTEM OCCUPATIONS	20	0.74	N.A.	N.A.
POWER DISTRIBUTORS AND DISPATCHERS	20	0.74	0.00	66.67
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.37	N.A.	N.A.
CRANE AND TOWER OPERATORS	10	0.37	0.00	33.33
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	390	14.43	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	100	3.70	0.00	66.67
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	50	1.85	0.00	66.67
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	240	8.88	0.00	0.00

SIC 265 PAPERBOARD CONTAINERS AND BOXES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	9,120	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	370	4.01	N.A.	N.A.
FINANCIAL MANAGERS	40	0.43	28.62	38.10
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.21	32.31	19.05
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.32	32.14	33.33
ALL OTHER ADMINISTRATIVE MANAGERS	20	0.21	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	90	0.98	23.58	57.14
GENERAL MANAGERS AND TOP EXECUTIVES	170	1.86	21.20	80.95
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	290	3.10	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.21	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.21	44.20	19.05
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	40	0.43	38.46	23.81
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.10	44.55	14.29
COST ESTIMATORS	40	0.43	43.07	23.81
ALL OTHER MANAGEMENT SUPPORT WORKERS	20	0.21	N.A.	N.A.
ALL OTHER ENGINEERS AND RELATED WORKERS	40	0.43	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.21	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.21	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	90	0.98	25.96	42.86
SALES AND RELATED OCCUPATIONS	620	6.78	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	80	0.87	48.28	47.62
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.43	47.04	14.29
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	360	3.95	24.01	57.14
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	840	9.09	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.65	32.78	33.33
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	40	0.43	N.A.	N.A.
SECRETARIES	80	0.87	25.53	52.38
RECEPTIONISTS AND INFORMATION CLERKS	30	0.32	44.78	23.81
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	80	0.87	35.48	23.81
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	60	0.65	29.00	38.10
PAYROLL AND TIMEKEEPING CLERKS	20	0.21	29.13	28.57

SIC 265 PAPERBOARD CONTAINERS AND BOXES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BILLING, COST AND RATE CLERKS	10	0.10	46.02	14.29
GENERAL OFFICE CLERKS	90	0.98	26.03	47.62
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.21	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	20	0.21	N.A.	N.A.
SWITCHBOARD OPERATORS	20	0.21	28.33	23.81
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	260	2.83	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.65	29.89	42.86
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.21	46.24	19.05
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	180	1.97	41.62	61.90
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.76	N.A.	N.A.
SERVICE OCCUPATIONS	120	1.29	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	30	0.32	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.87	36.93	33.33
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,880	75.32	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	390	4.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	0.43	35.37	38.10
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	320	3.51	17.92	66.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.32	39.84	28.57
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	120	1.31	38.04	23.81
MECHANICS, INSTALLERS, AND REPAIRERS	420	4.59	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	180	1.97	43.23	23.81
MACHINERY MAINTENANCE WORKERS	20	0.21	39.91	19.05
MAINTENANCE REPAIRERS-GENERAL UTILITY	220	2.41	21.96	57.14
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	0.43	N.A.	N.A.
ELECTRICIANS	40	0.43	49.68	23.81
PRECISION PRODUCTION OCCUPATIONS	40	0.42	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	10	0.10	N.A.	N.A.
ALL OTHER PRECISION WORKERS	30	0.32	43.93	19.05
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	620	6.80	N.A.	N.A.
SPECIALTY MATERIALS PRINTING MACHINE SETTERS AND SET-UP OPERATORS	190	2.08	44.54	23.81

SIC 265 PAPERBOARD CONTAINERS AND BOXES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRINTING PRESS MACHINE OPERATORS AND TENDERS	430	4.72	28.75	42.86
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,730	29.92	N.A.	N.A.
PAPER GOODS MACHINE SETTERS AND SET-UP OPERATORS	970	10.64	33.84	57.14
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	80	0.87	49.29	23.81
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	380	4.17	28.62	52.38
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	110	1.20	44.28	23.81
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	290	3.18	28.55	38.10
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	470	5.15	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	40	0.43	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	390	4.28	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	440	4.82	N.A.	N.A.
ALL OTHER HAND WORKERS	440	4.82	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	10	0.10	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	10	0.10	N.A.	N.A.
MOTOR VEHICLE OPERATORS	340	3.73	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	340	3.73	19.43	71.43
MATERIAL MOVING EQUIPMENT OPERATORS	660	7.22	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	470	5.15	18.02	61.90
CONVEYOR OPERATORS AND TENDERS	80	0.87	29.85	23.81
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	110	1.20	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	970	10.63	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	640	7.02	30.61	42.86
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	90	0.98	33.61	38.10
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	240	2.63	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	1.09	N.A.	N.A.

SIC 267 MISC. CONVERTED PAPER PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	9,210	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	330	3.52	N.A.	N.A.
FINANCIAL MANAGERS	20	0.21	20.27	37.93
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.21	25.26	37.93
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.10	10.65	20.69
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.21	9.97	24.14
INDUSTRIAL PRODUCTION MANAGERS	80	0.86	17.41	48.28
GENERAL MANAGERS AND TOP EXECUTIVES	150	1.62	19.37	72.41
ALL OTHER MANAGERS AND ADMINISTRATORS	10	0.10	28.40	17.24
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	330	3.49	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	60	0.64	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	50	0.54	31.12	34.48
ALL OTHER FINANCIAL SPECIALISTS	10	0.10	31.73	10.34
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.32	32.17	34.48
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.10	15.26	24.14
ALL OTHER MANAGEMENT SUPPORT WORKERS	30	0.32	N.A.	N.A.
ENGINEERS	40	0.42	N.A.	N.A.
CHEMICAL ENGINEERS	20	0.21	0.00	13.79
MECHANICAL ENGINEERS	20	0.21	21.03	20.69
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	40	0.41	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.10	46.27	17.24
DRAFTERS	10	0.10	11.48	17.24
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.21	0.00	10.34
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.10	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.10	0.00	3.45
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	10	0.10	N.A.	N.A.
COMPUTER PROGRAMMERS	10	0.10	17.44	20.69
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	100	1.08	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	340	3.66	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	10	0.10	36.62	17.24
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.21	0.00	10.34
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	280	3.03	28.97	58.62

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER SALES AND RELATED WORKERS	30	0.32	46.87	17.24
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	880	9.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	80	0.86	33.49	48.28
ADJUSTMENT CLERKS	50	0.54	19.67	31.03
SECRETARIES	160	1.73	12.18	65.52
RECEPTIONISTS AND INFORMATION CLERKS	20	0.21	26.91	34.48
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.10	12.39	10.34
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.10	14.56	31.03
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.21	38.35	27.59
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	100	1.08	24.86	44.83
PAYROLL AND TIMEKEEPING CLERKS	10	0.10	36.95	24.14
GENERAL OFFICE CLERKS	60	0.65	27.14	34.48
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.21	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.21	42.19	20.69
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	260	2.80	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	0.43	25.26	41.38
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	0.54	11.54	34.48
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	150	1.62	12.86	72.41
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.21	49.01	10.34
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.75	N.A.	N.A.
SERVICE OCCUPATIONS	100	1.07	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.21	0.00	10.34
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.86	17.18	58.62
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	7,230	78.12	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	480	5.18	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	30	0.32	17.16	24.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	400	4.33	7.56	82.76
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.32	24.92	34.48
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.21	0.00	20.69

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	280	3.03	21.29	41.38
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.10	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	420	4.52	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	140	1.51	N.A.	N.A.
MACHINERY MAINTENANCE WORKERS	70	0.75	11.71	17.24
MAINTENANCE REPAIRERS-GENERAL UTILITY	190	2.05	9.04	48.28
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.21	0.00	6.90
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	80	0.86	N.A.	N.A.
ELECTRICIANS	80	0.86	9.85	31.03
PRECISION PRODUCTION OCCUPATIONS	70	0.74	N.A.	N.A.
MACHINISTS	40	0.43	49.05	20.69
ALL OTHER PRECISION METAL WORKERS	20	0.21	N.A.	N.A.
ALL OTHER PRECISION PRINTING WORKERS	10	0.10	N.A.	N.A.
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.21	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.21	38.68	10.34
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	10	0.10	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	10	0.10	0.00	3.45
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	210	2.27	N.A.	N.A.
PRINTING PRESS MACHINE OPERATORS AND TENDERS	210	2.27	42.56	17.24
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,830	[illegible]0.63	N.A.	N.A.
PAPER GOODS MACHINE SETTERS AND SET-UP OPERATORS	890	9.64	20.19	37.93
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	160	1.73	26.97	27.59
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	630	6.82	19.73	41.38
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	160	1.73	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	80	0.86	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	910	9.85	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	200	2.15	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	10	0.10	0.00	3.45
ALL OTHER HAND WORKERS	190	2.05	N.A.	N.A.
MOTOR VEHICLE OPERATORS	210	2.26	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	190	2.05	15.88	41.38
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.21	44.56	24.14

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL MOVING EQUIPMENT OPERATORS	200	2.16	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	200	2.16	19.23	31.03
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,050	22.18	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	10	0.10	21.26	13.79
MACHINE FEEDERS AND OFFBEARERS	730	7.90	18.23	34.48
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	350	3.79	10.06	41.38
HAND PACKERS AND PACKAGERS	710	7.69	29.71	37.93
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	250	2.70	24.86	34.48
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	160	1.73	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 27 - PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more common processes, such as letterpress; lithography (including offset), gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding and platemaking. Also included are establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing.

SIC 271 - NEWSPAPERS: PUBLISHING, OR PUBLISHING AND PRINTING

Establishments that are primarily engaged in publishing newspapers, or in publishing and printing newspapers are in this industry.

SIC 272 - PERIODICALS: PUBLISHING, OR PUBLISHING AND PRINTING

This industry group includes establishments primarily engaged in publishing periodicals, or in publishing and printing periodicals.

SIC 273 - BOOKS

This industry group includes establishments primarily engaged in publishing, or in publishing and printing books and pamphlets; and printing, or in printing and binding books and pamphlets, but not engaged in publishing.

SIC 274 - MISCELLANEOUS PUBLISHING

Establishments that are primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing are in this industry.

SIC 275 - COMMERCIAL PRINTING

This industry group includes establishments primarily engaged in commercial lithographic printing; commercial gravure printing; and commercial printing, not elsewhere classified.

SIC 276 - MANIFOLD BUSINESS FORMS

This industry group includes establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction.

SIC 278 - BLANKBOOKS, LOOSELEAF BINDERS, AND BOOKBINDING AND RELATED WORK

Establishments that are primarily engaged in manufacturing blankbooks, looseleaf binders and devices; and bookbinding and related work such as library bookbinding; book or paper bronzing, gilding, and edging; and map and sample mounting are in this industry.

SIC 279 - SERVICE INDUSTRIES FOR THE PRINTING TRADE

This industry group includes establishments primarily engaged in typesetting for the trade, including advertisement typesetting; and platemaking and related services.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	72,980	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	6,200	8.45	N.A.	N.A.
FINANCIAL MANAGERS	230	0.31	13.61	21.85
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	140	0.19	16.50	14.15
PURCHASING MANAGERS	80	0.10	15.10	9.85
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	1,340	1.83	14.65	35.38
ADMINISTRATIVE SERVICES MANAGERS	60	0.08	32.28	5.54
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	70	0.09	26.15	6.77
INDUSTRIAL PRODUCTION MANAGERS	720	0.98	13.51	32.92
GENERAL MANAGERS AND TOP EXECUTIVES	3,140	4.30	8.56	76.62
ALL OTHER MANAGERS AND ADMINISTRATORS	420	0.57	23.62	11.08
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	7,510	10.19	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	260	0.35	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	220	0.30	23.48	12.31
ALL OTHER FINANCIAL SPECIALISTS	40	0.05	35.00	3.69
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	80	0.10	20.85	8.62
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	40	0.05	23.58	4.92
COST ESTIMATORS	460	0.63	19.48	18.15
ALL OTHER MANAGEMENT SUPPORT WORKERS	160	0.21	23.81	6.46
ENGINEERS	30	0.04	N.A.	N.A.
MECHANICAL ENGINEERS	30	0.04	35.79	1.23
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.10	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.10	N.A.	N.A.
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	10	0.01	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	280	0.37	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	60	0.08	18.99	4.00
COMPUTER PROGRAMMERS	160	0.21	15.80	9.85
COMPUTER PROGRAMMER AIDES	60	0.08	29.08	4.92
LIBRARIANS-PROFESSIONAL	40	0.05	42.47	3.38
WRITERS AND EDITORS	2,380	3.26	12.80	21.54
PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS	50	0.06	12.35	3.69
REPORTERS AND CORRESPONDENTS	1,600	2.19	15.41	8.00
PHOTOGRAPHERS	350	0.47	16.16	8.92
ARTISTS AND RELATED OCCUPATIONS	1,190	1.63	13.30	27.38
DESIGNERS-EXCEPT INTERIOR DESIGNERS	150	0.20	42.28	6.46
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	350	0.47	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SALES AND RELATED OCCUPATIONS	10,080	13.78	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	620	0.84	18.49	21.23
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	2,180	2.98	N.A.	N.A.
SALES AGENTS-ADVERTISING	2,180	2.98	14.00	20.92
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	50	0.06	42.08	2.15
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	3,000	4.11	7.85	44.31
NEWS AND STREET VENDORS, TELEPHONE SOLICITORS, DOOR-TO-DOOR SALES WORKERS, AND OTHER RELATED OCCUPATIONS	3,890	5.33	34.46	6.46
ALL OTHER SALES AND RELATED WORKERS	340	0.46	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	15,540	21.11	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	870	1.19	16.67	31.38
ADJUSTMENT CLERKS	700	0.95	10.95	19.69
LIBRARY ASSISTANTS AND BOOKMOBILE DRIVERS	20	0.02	40.17	0.92
ADVERTISING CLERKS	850	1.16	24.06	8.62
PROOFREADERS AND COPY MARKERS	1,150	1.57	27.18	21.23
SECRETARIES	1,200	1.64	9.45	41.85
RECEPTIONISTS AND INFORMATION CLERKS	570	0.78	22.75	28.62
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	120	0.16	26.04	6.77
TYPISTS-WORD PROCESSING EQUIPMENT	310	0.42	41.70	9.23
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	100	0.13	12.44	8.92
FILE CLERKS	80	0.10	15.96	7.69
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	640	0.87	16.39	16.00
PROCUREMENT CLERKS	20	0.02	30.41	4.00
STATISTICAL CLERKS	40	0.05	23.38	1.85
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	1,420	1.94	11.84	47.38
PAYROLL AND TIMEKEEPING CLERKS	120	0.16	23.29	12.00
BILLING, COST AND RATE CLERKS	240	0.32	18.86	13.54
GENERAL OFFICE CLERKS	1,760	2.41	17.79	30.46
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	2,390	3.24	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	30	0.04	26.49	3.08
MAIL MACHINE OPERATORS-PREPARATION AND HANDLING	1,020	1.39	36.03	6.77
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	160	0.21	21.40	7.69
DATA ENTRY KEYERS-EXCEPT COMPOSING	450	0.61	39.45	10.77
DATA ENTRY KEYERS-COMPOSING	610	0.83	31.88	10.77
ALL OTHER OFFICE MACHINE OPERATORS	120	0.16	N.A.	N.A.
SWITCHBOARD OPERATORS	240	0.32	17.33	14.77

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	160	0.21	26.70	8.62
MESSENGERS	300	0.41	26.91	10.77
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,980	2.69	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	90	0.12	41.31	4.31
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	550	0.75	29.74	20.62
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	440	0.60	17.39	18.15
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	800	1.09	13.31	29.54
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	100	0.13	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	260	0.35	N.A.	N.A.
SERVICE OCCUPATIONS	860	1.15	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	90	0.12	37.44	2.77
GUARDS AND WATCH GUARDS	150	0.20	27.04	2.15
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	550	0.75	17.36	23.08
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	20	0.02	43.67	2.15
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.01	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	32,780	44.58	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,910	2.60	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	110	0.15	22.10	7.08
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,670	2.28	10.27	43.69
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	60	0.08	25.69	5.23
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	0.09	23.45	4.92
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	180	0.24	29.62	6.46
MECHANICS, INSTALLERS, AND REPAIRERS	650	0.86	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	270	0.36	13.80	13.54
MACHINERY MAINTENANCE WORKERS	70	0.09	29.52	3.38
MAINTENANCE REPAIRERS-GENERAL UTILITY	260	0.35	18.56	14.77
DATA PROCESSING EQUIPMENT REPAIRERS	50	0.06	31.46	2.15
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	150	0.20	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CARPENTERS	30	0.04	21.86	3.08
ELECTRICIANS	120	0.16	11.37	3.38
PRECISION PRODUCTION OCCUPATIONS	7,380	10.02	N.A.	N.A.
MACHINISTS	130	0.17	42.45	2.46
PRECISION ETCHERS AND ENGRAVERS-HAND OR MACHINE	60	0.08	44.24	1.23
HAND COMPOSITORS AND TYPESETTERS-PRECISION	800	1.09	33.00	12.62
JOB PRINTERS	780	1.06	26.54	8.92
PASTE-UP OCCUPATIONS	1,420	1.94	12.87	25.54
ELECTRONIC PAGINATION SYSTEM OPERATORS	250	0.34	27.43	9.54
PHOTOENGRAVERS	460	0.63	17.60	8.62
CAMERA OPERATORS	780	1.06	15.17	29.54
SCANNER OPERATORS	170	0.23	28.04	7.08
STRIPPERS	1,420	1.94	14.20	24.62
PLATEMAKERS	600	0.82	9.98	20.92
ALL OTHER LITHOGRAPHY AND PHOTOENGRAVING OCCUPATIONS	130	0.17	33.82	3.69
BOOKBINDERS	80	0.10	38.23	1.54
ALL OTHER PRECISION PRINTING WORKERS	80	0.10	44.00	1.54
PRECISION PHOTOGRAPHIC PROCESS OCCUPATIONS	50	0.06	27.54	1.85
ALL OTHER PRECISION WORKERS	170	0.23	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	14,460	19.78	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	3,960	5.42	10.06	26.46
LETTERPRESS SETTERS AND SET-UP OPERATORS	570	0.78	24.98	8.00
ALL OTHER PRINTING PRESS SETTERS AND SET-UP OPERATORS	200	0.27	43.45	1.85
BINDERY MACHINE SETTERS AND SET-UP OPERATORS	1,110	1.52	14.75	17.54
ALL OTHER PRINTING RELATED SETTERS AND SET-UP OPERATORS	380	0.52	49.03	2.46
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	1,530	2.09	19.56	25.23
PRINTING PRESS MACHINE OPERATORS AND TENDERS	3,860	5.28	10.76	30.15
PHOTOENGRAVING AND LITHOGRAPHING MACHINE OPERATORS AND TENDERS	90	0.12	19.31	2.46
BINDERY MACHINE OPERATORS	1,810	2.48	10.04	24.00
ALL OTHER PRINTING, BINDING, AND RELATED MACHINE OPERATORS AND TENDERS	950	1.30	24.25	6.77
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,700	2.27	N.A.	N.A.
PHOTOGRAPHIC PROCESSING MACHINE OPERATORS AND TENDERS	120	0.16	23.64	2.77
PAPER GOODS MACHINE SETTERS AND SET-UP OPERATORS	180	0.24	47.43	1.54
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	80	0.10	31.37	3.38
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	270	0.36	16.96	11.08
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	60	0.08	47.81	1.23
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	350	0.47	41.13	3.69
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	290	0.39	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	350	0.47	36.46	4.92
OTHER HANDWORKING OCCUPATIONS	920	1.25	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	110	0.15	13.46	1.54
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	640	0.87	38.36	4.00
ALL OTHER HAND WORKERS	170	0.23	N.A.	N.A.
MOTOR VEHICLE OPERATORS	1,580	2.15	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	850	1.16	16.53	27.38
DRIVER/SALES OCCUPATIONS	440	0.60	39.91	3.69
ALL OTHER MOTOR VEHICLE OPERATORS	290	0.39	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	10	0.01	43.76	0.92
MATERIAL MOVING EQUIPMENT OPERATORS	220	0.29	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	200	0.27	20.97	4.92
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.02	44.64	0.62
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	3,580	4.86	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	50	0.06	36.52	2.15
MACHINE FEEDERS AND OFFBEARERS	1,210	1.65	14.86	9.85
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	430	0.58	17.29	10.77
HAND PACKERS AND PACKAGERS	1,080	1.47	23.39	11.08
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	810	1.10	24.18	6.46

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	26,080	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,570	5.99	N.A.	N.A.
FINANCIAL MANAGERS	50	0.19	23.81	52.38
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.15	41.74	38.10
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	500	1.92	29.23	71.43
ADMINISTRATIVE SERVICES MANAGERS	20	0.07	17.66	19.05
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.15	40.16	28.57
INDUSTRIAL PRODUCTION MANAGERS	120	0.46	34.62	57.14
GENERAL MANAGERS AND TOP EXECUTIVES	590	2.26	31.48	85.71
ALL OTHER MANAGERS AND ADMINISTRATORS	200	0.76	46.65	42.86
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	4,480	17.14	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	130	0.49	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	130	0.49	37.34	52.38
ALL OTHER MANAGEMENT SUPPORT WORKERS	90	0.34	N.A.	N.A.
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	10	0.03	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	120	0.45	N.A.	N.A.
COMPUTER PROGRAMMERS	70	0.26	23.61	33.33
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	50	0.19	N.A.	N.A.
LIBRARIANS-PROFESSIONAL	30	0.11	47.58	38.10
WRITERS AND EDITORS	1,680	6.45	17.55	80.95
PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS	20	0.07	23.71	19.05
REPORTERS AND CORRESPONDENTS	1,480	5.68	16.48	71.43
PHOTOGRAPHERS	300	1.15	18.53	66.67
ARTISTS AND RELATED OCCUPATIONS	420	1.61	22.28	76.19
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.07	0.00	9.52
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	180	0.69	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	6,300	24.19	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	340	1.30	29.55	61.90
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	1,320	5.07	N.A.	N.A.
SALES AGENTS-ADVERTISING	1,320	5.07	19.89	71.43
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	690	2.65	18.19	52.38
NEWS AND STREET VENDORS, TELEPHONE SOLICITORS, DOOR-TO-DOOR SALES WORKERS, AND OTHER RELATED OCCUPATIONS	3,800	14.60	35.25	52.38
ALL OTHER SALES AND RELATED WORKERS	150	0.57	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	6,160	23.56	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	380	1.46	33.70	57.14
ADJUSTMENT CLERKS	260	0.99	20.51	57.14
LIBRARY ASSISTANTS AND BOOKMOBILE DRIVERS	20	0.07	40.17	14.29
ADVERTISING CLERKS	770	2.95	26.07	66.67
SECRETARIES	270	1.03	17.09	57.14
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	50	0.19	42.88	33.33
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.15	27.45	42.86
FILE CLERKS	30	0.11	39.51	23.81
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	100	0.38	15.09	23.81
STATISTICAL CLERKS	30	0.11	15.22	19.05
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	470	1.80	27.82	76.19
PAYROLL AND TIMEKEEPING CLERKS	60	0.23	45.88	42.86
BILLING, COST AND RATE CLERKS	80	0.30	47.55	28.57
GENERAL OFFICE CLERKS	1,000	3.84	28.95	61.90
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	990	3.80	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	100	0.38	31.18	38.10
ALL OTHER OFFICE MACHINE OPERATORS	890	3.42	N.A.	N.A.
SWITCHBOARD OPERATORS	140	0.53	26.59	61.90
MESSENGERS	110	0.42	47.07	47.62
ALL OTHER MAIL AND MESSAGE DISTRIBUTION WORKERS	70	0.26	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	300	1.14	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.03	25.11	19.05
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	290	1.11	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	990	3.80	N.A.	N.A.
SERVICE OCCUPATIONS	480	1.83	N.A.	N.A.
GUARDS AND WATCH GUARDS	140	0.53	28.98	23.81
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	280	1.07	31.22	52.38
ALL OTHER SERVICE WORKERS	60	0.23	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.03	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	7,080	27.07	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	490	1.87	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	60	0.23	33.61	33.33

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	410	1.57	31.15	52.38
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.07	43.79	23.81
MECHANICS, INSTALLERS, AND REPAIRERS	240	0.91	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	100	0.38	16.55	38.10
DATA PROCESSING EQUIPMENT REPAIRERS	40	0.15	32.78	19.05
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	100	0.38	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	90	0.33	N.A.	N.A.
CARPENTERS	10	0.03	30.41	14.29
ELECTRICIANS	80	0.30	9.25	19.05
PRECISION PRODUCTION OCCUPATIONS	1,570	6.00	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	20	0.07	N.A.	N.A.
JOB PRINTERS	30	0.11	8.21	14.29
PASTE-UP OCCUPATIONS	690	2.65	19.50	52.38
PHOTOENGRAVERS	130	0.49	45.88	19.05
CAMERA OPERATORS	170	0.65	45.69	38.10
PLATEMAKERS	100	0.38	44.27	33.33
ALL OTHER PRECISION PRINTING WORKERS	380	1.46	N.A.	N.A.
ALL OTHER PRECISION WORKERS	50	0.19	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	1,290	4.94	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	690	2.65	26.21	42.86
LETTERPRESS SETTERS AND SET-UP OPERATORS	200	0.76	47.06	14.29
PRINTING PRESS MACHINE OPERATORS AND TENDERS	400	1.53	46.82	28.57
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,280	4.91	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	380	1.46	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.07	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	880	3.38	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	300	1.15	N.A.	N.A.
ALL OTHER HAND WORKERS	300	1.15	N.A.	N.A.
MOTOR VEHICLE OPERATORS	710	2.72	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	250	0.96	40.41	28.57
ALL OTHER MOTOR VEHICLE OPERATORS	460	1.76	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	20	0.07	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	0.07	48.86	9.52
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,040	3.98	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE FEEDERS AND OFFBEARERS..	150	0.57	15.78	14.29
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND..............................	50	0.19	48.07	19.05
HAND PACKERS AND PACKAGERS..	470	1.80	48.85	23.81
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND................	370	1.42	43.09	19.05

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,110	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	390	12.56	N.A.	N.A.
FINANCIAL MANAGERS	10	0.32	23.23	10.87
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	140	4.51	22.87	56.52
GENERAL MANAGERS AND TOP EXECUTIVES	180	5.80	12.22	71.74
ALL OTHER MANAGERS AND ADMINISTRATORS	60	1.93	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	790	25.45	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	30	0.96	N.A.	N.A.
COMPUTER PROGRAMMERS	30	0.96	35.14	15.22
WRITERS AND EDITORS	440	14.19	15.11	76.09
REPORTERS AND CORRESPONDENTS	90	2.90	28.89	17.39
PHOTOGRAPHERS	30	0.96	35.14	15.22
ARTISTS AND RELATED OCCUPATIONS	90	2.90	21.12	41.30
DESIGNERS-EXCEPT INTERIOR DESIGNERS	30	0.96	36.98	13.04
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	80	2.58	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	560	18.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	50	1.61	21.31	23.91
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	270	8.70	N.A.	N.A.
SALES AGENTS-ADVERTISING	270	8.70	19.00	36.96
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	200	6.45	18.59	36.96
NEWS AND STREET VENDORS, TELEPHONE SOLICITORS, DOOR-TO-DOOR SALES WORKERS, AND OTHER RELATED OCCUPATIONS	10	0.32	47.67	6.52
ALL OTHER SALES AND RELATED WORKERS	30	0.96	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	760	24.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50	1.61	17.32	32.61
ADVERTISING CLERKS	20	0.64	31.36	10.87
PROOFREADERS AND COPY MARKERS	30	0.96	42.88	17.39
SECRETARIES	150	4.83	18.94	45.65
RECEPTIONISTS AND INFORMATION CLERKS	70	2.25	20.35	34.78
TYPISTS-WORD PROCESSING EQUIPMENT	50	1.61	25.66	17.39
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	40	1.29	33.45	10.87
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	70	2.25	20.36	34.78
GENERAL OFFICE CLERKS	50	1.61	28.69	21.74
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	1.92	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAIL MACHINE OPERATORS-PREPARATION AND HANDLING	20	0.64	17.58	8.70
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.64	24.87	8.70
DATA ENTRY KEYERS-COMPOSING	20	0.64	35.95	8.70
SWITCHBOARD OPERATORS	10	0.32	25.58	13.04
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	40	1.29	38.35	10.87
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	60	1.93	N.A.	N.A.
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	1.93	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.93	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.32	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	600	19.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	20	0.64	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	20	0.64	35.82	10.87
PRECISION PRODUCTION OCCUPATIONS	130	4.18	N.A.	N.A.
PASTE-UP OCCUPATIONS	40	1.29	25.13	17.39
PHOTOENGRAVERS	10	0.32	42.82	4.35
BOOKBINDERS	10	0.32	40.67	2.17
ALL OTHER PRECISION PRINTING WORKERS	60	1.93	N.A.	N.A.
ALL OTHER PRECISION WORKERS	10	0.32	48.23	2.17
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	180	5.79	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	70	2.25	44.35	6.52
BINDERY MACHINE SETTERS AND SET-UP OPERATORS	30	0.96	47.74	4.35
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	40	1.29	46.23	15.22
PRINTING PRESS MACHINE OPERATORS AND TENDERS	40	1.29	42.36	6.52
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.64	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.64	N.A.	N.A.
MOTOR VEHICLE OPERATORS	10	0.32	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.32	40.45	6.52
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	220	7.09	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	60	1.93	42.77	6.52
HAND PACKERS AND PACKAGERS	120	3.87	33.40	8.70
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	1.29	27.15	4.35

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,890	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	260	6.66	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	50	1.28	13.42	66.67
INDUSTRIAL PRODUCTION MANAGERS	40	1.02	25.23	60.00
GENERAL MANAGERS AND TOP EXECUTIVES	90	2.31	18.96	0.00
ALL OTHER MANAGERS AND ADMINISTRATORS	80	2.05	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	490	12.55	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.51	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.51	18.29	40.00
COST ESTIMATORS	20	0.51	35.01	40.00
ALL OTHER MANAGEMENT SUPPORT WORKERS	80	2.05	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	50	1.27	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.51	1.76	26.67
COMPUTER PROGRAMMERS	20	0.51	10.69	33.33
COMPUTER PROGRAMMER AIDES	10	0.25	5.45	20.00
WRITERS AND EDITORS	170	4.37	17.71	60.00
PUBLIC RELATIONS SPECIALISTS AND PUBLICITY WRITERS	20	0.51	9.48	40.00
ARTISTS AND RELATED OCCUPATIONS	60	1.54	11.45	60.00
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.51	34.48	33.33
SALES AND RELATED OCCUPATIONS	560	14.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	10	0.25	17.74	26.67
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	490	12.59	13.15	73.33
NEWS AND STREET VENDORS, TELEPHONE SOLICITORS, DOOR-TO-DOOR SALES WORKERS, AND OTHER RELATED OCCUPATIONS	20	0.51	3.06	13.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	990	25.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	1.02	21.08	46.67
ADJUSTMENT CLERKS	40	1.02	19.25	26.67
PROOFREADERS AND COPY MARKERS	180	4.62	26.48	33.33
SECRETARIES	100	2.57	13.26	80.00
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	30	0.77	22.24	33.33
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.25	10.32	13.33
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	30	0.77	8.17	40.00
FILE CLERKS	10	0.25	11.58	26.67
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	80	2.05	20.45	20.00

SIC 273 BOOKS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	1.02	23.86	66.67
BILLING, COST AND RATE CLERKS	20	0.51	18.67	33.33
GENERAL OFFICE CLERKS	40	1.02	29.77	33.33
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	130	3.33	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.51	12.69	33.33
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.77	19.49	26.67
DATA ENTRY KEYERS-COMPOSING	80	2.05	11.22	33.33
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	10	0.25	28.49	40.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	170	4.35	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	1.02	15.28	40.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	1.54	17.70	53.33
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	70	1.79	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.54	N.A.	N.A.
SERVICE OCCUPATIONS	40	1.02	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.77	22.95	40.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,550	39.74	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	60	1.54	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	1.54	15.91	53.33
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	20	0.51	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	480	12.31	N.A.	N.A.
HAND COMPOSITORS AND TYPESETTERS-PRECISION	110	2.82	21.76	26.67
PHOTOENGRAVERS	60	1.54	3.87	13.33
STRIPPERS	110	2.82	25.04	40.00
PLATEMAKERS	130	3.34	13.32	33.33
ALL OTHER PRECISION PRINTING WORKERS	40	1.02	N.A.	N.A.
PRECISION PHOTOGRAPHIC PROCESS OCCUPATIONS	30	0.77	38.96	20.00
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	340	8.71	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	120	3.08	42.69	26.67
ALL OTHER PRINTING PRESS SETTERS AND SET-UP OPERATORS	30	0.77	N.A.	N.A.
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	10	0.25	0.00	6.67
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	50	1.28	23.89	33.33
PRINTING PRESS MACHINE OPERATORS AND TENDERS	50	1.28	43.24	33.33
BINDERY MACHINE OPERATORS	80	2.05	20.18	40.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	120	3.07	N.A.	N.A.

SIC 273 BOOKS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHOTOGRAPHIC PROCESSING MACHINE OPERATORS AND TENDERS	50	1.28	8.67	20.00
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	70	1.79	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	90	2.31	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	90	2.31	4.52	20.00
MOTOR VEHICLE OPERATORS	30	0.77	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.77	48.17	46.67
MATERIAL MOVING EQUIPMENT OPERATORS	20	0.51	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.51	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	210	5.39	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	50	1.28	29.40	20.00
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	130	3.34	36.01	40.00
HAND PACKERS AND PACKAGERS	30	0.77	0.00	6.67
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	180	4.62	N.A.	N.A.

SIC 274 MISCELLANEOUS PUBLISHING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,390	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	400	16.93	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	150	6.35	34.18	51.72
GENERAL MANAGERS AND TOP EXECUTIVES	170	7.20	20.70	72.41
ALL OTHER MANAGERS AND ADMINISTRATORS	80	3.38	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	390	16.51	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	2.54	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	2.54	N.A.	N.A.
WRITERS AND EDITORS	100	4.23	38.00	31.03
ARTISTS AND RELATED OCCUPATIONS	90	3.81	34.05	41.38
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	140	5.93	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	240	10.16	N.A.	N.A.
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	130	5.50	N.A.	N.A.
SALES AGENTS-ADVERTISING	130	5.50	40.14	41.38
ALL OTHER SALES AND RELATED WORKERS	110	4.66	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	670	28.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	2.54	33.81	27.59
SECRETARIES	100	4.23	33.15	44.83
RECEPTIONISTS AND INFORMATION CLERKS	70	2.96	31.22	41.38
TYPISTS-WORD PROCESSING EQUIPMENT	60	2.54	46.08	27.59
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	70	2.96	37.69	41.38
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	120	5.08	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	120	5.08	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	190	8.05	N.A.	N.A.
SERVICE OCCUPATIONS	40	1.69	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	650	27.52	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	30	1.27	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	30	1.27	49.32	20.69
PRECISION PRODUCTION OCCUPATIONS	280	11.86	N.A.	N.A.
ALL OTHER PRECISION PRINTING WORKERS	280	11.86	N.A.	N.A.

SIC 274 MISCELLANEOUS PUBLISHING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	190	8.04	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	40	1.69	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	150	6.35	N.A.	N.A.
MOTOR VEHICLE OPERATORS	120	5.08	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	120	5.08	N.A.	N.A.

SIC 275 COMMERCIAL PRINTING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	28,680	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	3,000	10.40	N.A.	N.A.
FINANCIAL MANAGERS	110	0.38	24.54	23.28
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	70	0.24	24.18	13.79
PURCHASING MANAGERS	40	0.13	18.21	12.07
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	440	1.53	25.84	27.59
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.06	46.14	6.03
INDUSTRIAL PRODUCTION MANAGERS	430	1.49	19.75	40.52
GENERAL MANAGERS AND TOP EXECUTIVES	1,800	6.27	10.45	73.28
ALL OTHER MANAGERS AND ADMINISTRATORS	80	0.27	22.64	7.76
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,180	4.03	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	50	0.16	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.13	43.44	8.62
ALL OTHER FINANCIAL SPECIALISTS	10	0.03	37.16	3.45
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	50	0.17	30.23	12.07
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.03	39.91	3.45
COST ESTIMATORS	380	1.32	23.50	29.31
ALL OTHER MANAGEMENT SUPPORT WORKERS	20	0.06	41.08	4.31
ENGINEERS	20	0.06	N.A.	N.A.
ALL OTHER ENGINEERS	20	0.06	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	40	0.12	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.06	38.39	4.31
COMPUTER PROGRAMMERS	20	0.06	48.61	3.45
ARTISTS AND RELATED OCCUPATIONS	470	1.63	25.79	18.97
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	140	0.48	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,870	6.50	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	130	0.45	40.65	13.79
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	420	1.46	N.A.	N.A.
SALES AGENTS-ADVERTISING	420	1.46	32.33	13.79
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	1,200	4.18	14.66	46.55
ALL OTHER SALES AND RELATED WORKERS	120	0.41	44.08	7.76
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	5,280	18.25	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	260	0.90	23.16	29.31

SIC 275 COMMERCIAL PRINTING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ADJUSTMENT CLERKS	230	0.80	19.72	18.97
PROOFREADERS AND COPY MARKERS	240	0.83	29.90	14.66
SECRETARIES	480	1.67	19.41	33.62
RECEPTIONISTS AND INFORMATION CLERKS	220	0.76	26.56	25.86
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.06	27.46	6.03
FILE CLERKS	20	0.06	37.67	4.31
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	280	0.97	34.90	17.24
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	590	2.05	16.74	46.55
PAYROLL AND TIMEKEEPING CLERKS	40	0.13	22.50	11.21
BILLING, COST AND RATE CLERKS	60	0.20	25.95	12.07
GENERAL OFFICE CLERKS	500	1.74	21.52	29.31
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	910	3.14	N.A.	N.A.
MAIL MACHINE OPERATORS-PREPARATION AND HANDLING	530	1.84	48.60	6.03
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.06	47.82	4.31
DATA ENTRY KEYERS-EXCEPT COMPOSING	150	0.52	36.69	9.48
DATA ENTRY KEYERS-COMPOSING	90	0.31	30.61	8.62
ALL OTHER OFFICE MACHINE OPERATORS	120	0.41	N.A.	N.A.
SWITCHBOARD OPERATORS	60	0.20	27.77	13.79
MESSENGERS	120	0.41	47.45	6.90
ALL OTHER MAIL AND MESSAGE DISTRIBUTION WORKERS	40	0.13	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,080	3.75	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	360	1.25	44.05	25.86
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	270	0.94	23.49	25.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	420	1.46	16.45	33.62
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	30	0.10	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	130	0.45	N.A.	N.A.
SERVICE OCCUPATIONS	150	0.51	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.03	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	140	0.48	21.27	19.83
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	17,200	59.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	940	3.25	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.06	28.68	6.03
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	870	3.03	12.73	51.72

SIC 275 COMMERCIAL PRINTING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.10	34.01	5.17
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.06	34.01	3.45
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	140	0.48	34.93	8.62
MECHANICS, INSTALLERS, AND REPAIRERS	230	0.78	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	90	0.31	32.83	13.79
MACHINERY MAINTENANCE WORKERS	20	0.06	38.68	3.45
MAINTENANCE REPAIRERS-GENERAL UTILITY	120	0.41	20.80	14.66
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	50	0.16	N.A.	N.A.
CARPENTERS	10	0.03	46.27	2.59
ELECTRICIANS	40	0.13	32.38	4.31
PRECISION PRODUCTION OCCUPATIONS	3,660	12.70	N.A.	N.A.
MACHINISTS	30	0.10	43.17	3.45
HAND COMPOSITORS AND TYPESETTERS-PRECISION	260	0.90	42.21	12.93
JOB PRINTERS	530	1.84	33.32	12.93
PASTE-UP OCCUPATIONS	500	1.74	22.77	25.00
PHOTOENGRAVERS	200	0.69	27.46	9.48
CAMERA OPERATORS	410	1.42	20.66	31.90
STRIPPERS	1,050	3.65	18.47	36.21
PLATEMAKERS	250	0.87	14.07	25.86
ALL OTHER PRECISION PRINTING WORKERS	320	1.11	N.A.	N.A.
ALL OTHER PRECISION WORKERS	110	0.38	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	8,770	30.52	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	2,700	9.41	12.72	43.97
LETTERPRESS SETTERS AND SET-UP OPERATORS	280	0.97	36.54	12.07
ALL OTHER PRINTING PRESS SETTERS AND SET-UP OPERATORS	180	0.62	42.30	3.45
BINDERY MACHINE SETTERS AND SET-UP OPERATORS	710	2.47	18.72	25.00
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	600	2.09	20.72	22.41
PRINTING PRESS MACHINE OPERATORS AND TENDERS	2,920	10.17	12.28	51.72
PHOTOENGRAVING AND LITHOGRAPHING MACHINE OPERATORS AND TENDERS	10	0.03	40.36	2.59
BINDERY MACHINE OPERATORS	900	3.13	15.26	32.76
ALL OTHER PRINTING, BINDING, AND RELATED MACHINE OPERATORS AND TENDERS	470	1.63	41.94	5.17
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	940	3.25	N.A.	N.A.
PHOTOGRAPHIC PROCESSING MACHINE OPERATORS AND TENDERS	60	0.20	44.18	3.45
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	50	0.17	30.69	5.17

SIC 275 COMMERCIAL PRINTING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	180	0.62	22.21	15.52
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	250	0.87	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	400	1.39	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	270	0.93	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	200	0.69	49.99	4.31
ALL OTHER HAND WORKERS	70	0.24	N.A.	N.A.
MOTOR VEHICLE OPERATORS	580	2.01	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	70	0.24	31.98	5.17
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	380	1.32	21.55	30.17
ALL OTHER MOTOR VEHICLE OPERATORS	130	0.45	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	90	0.30	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	0.27	36.13	5.17
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	10	0.03	44.64	1.72
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,500	5.19	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	40	0.13	44.38	3.45
MACHINE FEEDERS AND OFFBEARERS	800	2.78	20.72	12.07
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	90	0.31	39.40	8.62
HAND PACKERS AND PACKAGERS	350	1.21	28.09	12.93
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	220	0.76	40.06	6.90

SIC 276 MANIFOLD BUSINESS FORMS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,490	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	160	4.57	N.A.	N.A.
FINANCIAL MANAGERS	20	0.57	8.71	45.83
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.28	18.78	29.17
PURCHASING MANAGERS	10	0.28	20.55	25.00
INDUSTRIAL PRODUCTION MANAGERS	20	0.57	19.82	29.17
GENERAL MANAGERS AND TOP EXECUTIVES	70	2.01	15.68	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	70	2.00	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.57	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.57	16.87	25.00
COST ESTIMATORS	20	0.57	45.02	16.67
SALES AND RELATED OCCUPATIONS	200	5.73	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	1.14	23.06	37.50
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	140	4.02	23.80	54.17
ALL OTHER SALES AND RELATED WORKERS	20	0.57	43.37	8.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	710	20.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	1.14	16.34	45.83
ADJUSTMENT CLERKS	60	1.72	26.02	37.50
PROOFREADERS AND COPY MARKERS	20	0.57	25.53	25.00
SECRETARIES	40	1.14	15.45	50.00
RECEPTIONISTS AND INFORMATION CLERKS	20	0.57	20.86	37.50
FILE CLERKS	10	0.28	23.30	25.00
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	100	2.87	23.44	41.67
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.43	23.46	37.50
BILLING, COST AND RATE CLERKS	30	0.86	23.34	37.50
GENERAL OFFICE CLERKS	50	1.43	19.71	50.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	1.71	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.57	19.60	25.00
DATA ENTRY KEYERS-COMPOSING	40	1.14	26.79	25.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	170	4.86	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	1.14	23.59	29.17
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	1.43	25.42	41.67
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	80	2.29	21.78	58.33

SIC 276 MANIFOLD BUSINESS FORMS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.72	N.A.	N.A.
SERVICE OCCUPATIONS	70	2.00	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.86	26.91	37.50
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,280	65.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	110	3.15	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	90	2.58	14.51	54.17
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.57	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	70	1.99	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	1.14	26.56	29.17
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.28	35.91	20.83
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.57	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	250	7.14	N.A.	N.A.
HAND COMPOSITORS AND TYPESETTERS-PRECISION	20	0.57	28.15	16.67
PASTE-UP OCCUPATIONS	20	0.57	20.20	29.17
ELECTRONIC PAGINATION SYSTEM OPERATORS	50	1.43	36.92	20.83
CAMERA OPERATORS	20	0.57	18.64	45.83
STRIPPERS	40	1.14	20.57	37.50
PLATEMAKERS	40	1.14	18.01	50.00
ALL OTHER LITHOGRAPHY AND PHOTOENGRAVING OCCUPATIONS	30	0.86	38.96	12.50
ALL OTHER PRECISION PRINTING WORKERS	30	0.86	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	1,150	33.02	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	330	9.48	20.50	41.67
ALL OTHER PRINTING PRESS SETTERS AND SET-UP OPERATORS	30	0.86	N.A.	N.A.
BINDERY MACHINE SETTERS AND SET-UP OPERATORS	60	1.72	33.86	20.83
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	30	0.86	46.69	20.83
PRINTING PRESS MACHINE OPERATORS AND TENDERS	320	9.19	23.35	37.50
BINDERY MACHINE OPERATORS	380	10.91	16.21	58.33
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	280	8.03	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	20	0.57	46.34	12.50
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	90	2.58	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	170	4.88	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	30	0.86	N.A.	N.A.

SIC 276   MANIFOLD BUSINESS FORMS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HAND WORKERS	30	0.86	N.A.	N.A.
MOTOR VEHICLE OPERATORS	40	1.14	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.57	47.63	8.33
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.57	46.75	16.67
MATERIAL MOVING EQUIPMENT OPERATORS	70	2.01	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	70	2.01	29.92	16.67
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	180	5.16	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	90	2.58	37.57	20.83
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	2.01	37.70	25.00
HAND PACKERS AND PACKAGERS	20	0.57	47.88	12.50
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	2.87	N.A.	N.A.

SIC 278 BLANKBOOKS AND BOOKBINDING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,740	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	140	5.08	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	10	0.36	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	0.72	33.32	32.14
GENERAL MANAGERS AND TOP EXECUTIVES	70	2.55	12.49	71.43
ALL OTHER MANAGERS AND ADMINISTRATORS	40	1.45	40.44	14.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	60	2.18	N.A.	N.A.
COST ESTIMATORS	30	1.09	30.43	21.43
SALES AND RELATED OCCUPATIONS	120	4.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	10	0.36	47.11	14.29
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	100	3.64	19.70	50.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	450	16.33	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.36	36.80	21.43
ADJUSTMENT CLERKS	50	1.82	34.12	28.57
SECRETARIES	40	1.45	26.35	46.43
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	10	0.36	44.20	14.29
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.82	22.06	50.00
BILLING, COST AND RATE CLERKS	30	1.09	48.97	17.86
GENERAL OFFICE CLERKS	40	1.45	24.34	28.57
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	2.91	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	80	2.91	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	80	2.89	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.72	24.85	28.57
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.72	31.32	25.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.45	20.68	42.86
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	2.18	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.09	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	1.09	22.06	28.57
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,940	70.65	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	100	3.64	N.A.	N.A.

SIC 278 BLANKBOOKS AND BOOKBINDING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	3.64	12.81	67.86
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.36	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	50	1.81	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	10	0.36	32.41	21.43
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	1.45	26.76	35.71
PRECISION PRODUCTION OCCUPATIONS	130	4.72	N.A.	N.A.
HAND COMPOSITORS AND TYPESETTERS-PRECISION	10	0.36	46.36	14.29
PLATEMAKERS	20	0.72	42.45	14.29
ALL OTHER PRECISION PRINTING WORKERS	100	3.64	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	780	28.43	N.A.	N.A.
LETTERPRESS SETTERS AND SET-UP OPERATORS	30	1.09	38.46	14.29
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	30	1.09	39.92	17.86
BINDERY MACHINE SETTERS AND SET-UP OPERATORS	130	4.74	27.92	42.86
PRINTING PRESS MACHINE OPERATORS AND TENDERS	40	1.45	43.71	21.43
BINDERY MACHINE OPERATORS	430	15.69	22.83	50.00
ALL OTHER PRINTING, BINDING, AND RELATED MACHINE OPERATORS AND TENDERS	120	4.37	41.92	17.86
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	250	9.11	N.A.	N.A.
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	60	2.18	26.20	35.71
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	190	6.93	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	160	5.83	N.A.	N.A.
ALL OTHER HAND WORKERS	160	5.83	N.A.	N.A.
MOTOR VEHICLE OPERATORS	40	1.45	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	40	1.45	23.51	42.86
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	210	7.64	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	120	4.37	49.32	17.86
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	0.72	43.58	17.86
HAND PACKERS AND PACKAGERS	70	2.55	35.24	21.43
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	210	7.66	N.A.	N.A.

SIC 279 PRINTING TRADE SERVICES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,700	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	270	10.01	N.A.	N.A.
FINANCIAL MANAGERS	10	0.37	17.29	10.87
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	1.48	25.77	28.26
INDUSTRIAL PRODUCTION MANAGERS	40	1.48	27.14	26.09
GENERAL MANAGERS AND TOP EXECUTIVES	170	6.31	10.48	84.78
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	100	3.71	N.A.	N.A.
ARTISTS AND RELATED OCCUPATIONS	40	1.48	28.00	17.39
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	2.23	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	210	7.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.74	30.21	15.22
SALES REPRESENTATIVES AND SALESPERSONS-SERVICES	30	1.11	N.A.	N.A.
SALES AGENTS-ADVERTISING	30	1.11	37.35	13.04
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	130	4.83	13.06	41.30
ALL OTHER SALES AND RELATED WORKERS	30	1.11	37.73	6.52
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	550	20.39	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.74	24.77	19.57
ADJUSTMENT CLERKS	40	1.48	27.29	10.87
PROOFREADERS AND COPY MARKERS	120	4.46	17.07	34.78
SECRETARIES	30	1.11	23.31	30.43
RECEPTIONISTS AND INFORMATION CLERKS	20	0.74	23.63	19.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	2.97	14.79	50.00
GENERAL OFFICE CLERKS	40	1.48	23.96	26.09
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	1.11	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	30	1.11	N.A.	N.A.
MESSENGERS	50	1.85	22.05	26.09
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	1.85	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	1.11	25.40	19.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	20	0.74	26.85	19.57
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	2.60	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.11	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.74	21.22	23.91

SIC 279 PRINTING TRADE SERVICES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,540	57.16	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	90	3.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	90	3.34	12.96	43.48
PRECISION PRODUCTION OCCUPATIONS	870	32.31	N.A.	N.A.
PRECISION ETCHERS AND ENGRAVERS-HAND OR MACHINE	20	0.74	20.55	4.35
PASTE-UP OCCUPATIONS	90	3.34	22.53	30.43
ELECTRONIC PAGINATION SYSTEM OPERATORS	60	2.23	33.91	19.57
PHOTOENGRAVERS	50	1.85	26.29	13.04
CAMERA OPERATORS	140	5.20	12.03	65.22
SCANNER OPERATORS	60	2.23	24.16	23.91
STRIPPERS	190	7.06	19.27	34.78
PLATEMAKERS	70	2.60	18.86	17.39
ALL OTHER PRECISION PRINTING WORKERS	70	2.60	N.A.	N.A.
ALL OTHER PRECISION WORKERS	120	4.46	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	350	12.99	N.A.	N.A.
OFFSET LITHOGRAPHIC PRESS SETTERS AND SET-UP OPERATORS	30	1.11	38.66	10.87
TYPESETTING AND COMPOSING MACHINE OPERATORS AND TENDERS	240	8.92	14.82	45.65
PRINTING PRESS MACHINE OPERATORS AND TENDERS	30	1.11	49.82	6.52
PHOTOENGRAVING AND LITHOGRAPHING MACHINE OPERATORS AND TENDERS	20	0.74	16.28	2.17
ALL OTHER PRINTING, BINDING, AND RELATED MACHINE OPERATORS AND TENDERS	30	1.11	44.31	6.52
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.74	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.74	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	20	0.74	N.A.	N.A.
ENGRAVING AND PRINTING WORKERS-HAND	20	0.74	16.29	4.35
MOTOR VEHICLE OPERATORS	50	1.85	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	50	1.85	18.71	34.78
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	40	1.48	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	1.48	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	3.71	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 28 - CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical processes. Three general classes of products manufactured are: (1) basic chemicals, such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture, such as synthetic fibers, plastics materials, dry colors, and pigments; and (3) finished chemical products to be used for ultimate consumption, such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries, such as paints, fertilizers, and explosives.

SIC 281 - INDUSTRIAL INORGANIC CHEMICALS

Establishments that are primarily engaged in manufacturing alkalies and chlorine; industrial gases for sale in compressed, liquid, and solid form; inorganic pigments; and industrial inorganic chemicals, not elsewhere classified, are in this industry.

SIC 282 - PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, CELLULOSIC AND OTHER MANMADE FIBERS, EXCEPT GLASS

This industry group includes establishments primarily engaged in manufacturing plastics materials, synthetic resins, and nonvulcanizable elastomers; synthetic rubber by polymerization or copolymerization; cellulosic manmade fibers; and manmade organic fibers, except cellulosic.

SIC 283 - DRUGS

This industry group includes establishments primarily engaged in manufacturing medicinal chemicals and botanical products; manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use; in vitro and in vivo diagnostic substances, whether or not packaged for retail sale; and biological products, except diagnostic substances.

SIC 284 - SOAP, DETERGENTS, AND CLEANING PREPARATIONS; PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

Establishments that are primarily engaged in manufacturing soap and other detergents, except specialty cleaners; specialty cleaning, polishing, and sanitation preparations; surface active agents, finishing agents, sulfonated oils, and assistants; and perfumes, cosmetics, and other toilet preparations are in this industry.

INDUSTRY CHARACTERISTICS (CONTINUED)

SIC 285 - PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

Establishments that are primarily engaged in manufacturing paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers, and sealers; paint and varnish removers; paint brush cleaners; and allied paint products are in this industry.

SIC 286 - INDUSTRIAL ORGANIC CHEMICALS

This industry group includes establishments primarily engaged in manufacturing gum and wood chemicals; cyclic organic crudes and intermediates, and organic dyes and pigments; and industrial organic chemicals, not elsewhere classified, such as aliphatic and other acyclic organic chemicals, solvents, and polyhydric alcohols.

SIC 287 - AGRICULTURAL CHEMICALS

This industry group includes establishments primarily engaged in manufacturing nitrogenous fertilizers; phosphatic fertilizers; mixed fertilizers; and pesticides and other agricultural chemicals, not elsewhere classified.

SIC 289 - MISCELLANEOUS CHEMICAL PRODUCTS

This industry group includes establishments primarily engaged in manufacturing adhesives and sealants; explosives; printing ink; carbon black; and chemicals and chemical preparations, not elsewhere classified, such as fatty acids, essential oils, bluing, and laundry sours.

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	79,730	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	5,350	6.68	N.A.	N.A.
FINANCIAL MANAGERS	360	0.45	10.01	51.65
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	260	0.32	7.71	45.05
PURCHASING MANAGERS	200	0.25	11.46	36.81
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	520	0.65	19.70	32.97
ADMINISTRATIVE SERVICES MANAGERS	120	0.15	14.88	17.03
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	560	0.70	10.08	37.91
INDUSTRIAL PRODUCTION MANAGERS	980	1.22	5.86	74.73
GENERAL MANAGERS AND TOP EXECUTIVES	1,250	1.56	6.28	82.97
ALL OTHER MANAGERS AND ADMINISTRATORS	1,100	1.38	13.16	29.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	15,430	19.22	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	860	1.07	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	600	0.75	7.65	50.00
BUDGET ANALYSTS	120	0.15	16.89	10.44
ALL OTHER FINANCIAL SPECIALISTS	140	0.17	18.83	9.34
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	490	0.61	6.33	52.20
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	330	0.41	5.68	32.97
COST ESTIMATORS	60	0.07	21.00	6.59
COMPLIANCE OFFICERS AND ENFORCEMENT INSPECTORS-EXCEPT CONSTRUCTION	100	0.12	18.02	12.64
ALL OTHER MANAGEMENT SUPPORT WORKERS	560	0.70	11.57	18.13
ENGINEERS	4,910	6.12	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	90	0.11	26.09	7.14
CHEMICAL ENGINEERS	2,350	2.94	4.41	45.05
CIVIL ENGINEERS-INCLUDING TRAFFIC	120	0.15	10.67	13.74
ELECTRICAL AND ELECTRONIC ENGINEERS	540	0.67	10.21	25.27
COMPUTER ENGINEERS	90	0.11	18.53	8.79
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	520	0.65	16.25	17.03
SAFETY ENGINEERS-EXCEPT MINING	170	0.21	8.80	26.37
MECHANICAL ENGINEERS	850	1.06	9.34	34.07
ALL OTHER ENGINEERS	180	0.22	26.30	10.99
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	1,500	1.87	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	480	0.60	15.77	15.93
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	320	0.40	9.93	13.19
DRAFTERS	300	0.37	8.86	24.18

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	400	0.50	13.17	9.34
PHYSICAL SCIENTISTS	1,780	2.23	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	1,690	2.12	9.10	63.19
ALL OTHER PHYSICAL SCIENTISTS	90	0.11	16.38	10.99
LIFE SCIENTISTS	120	0.15	N.A.	N.A.
BIOLOGICAL SCIENTISTS	120	0.15	28.91	8.79
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	3,490	4.37	N.A.	N.A.
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	80	0.10	11.93	3.30
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	3,370	4.22	5.43	53.30
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.05	11.77	2.20
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	780	0.95	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	380	0.47	14.73	24.73
COMPUTER PROGRAMMERS	310	0.38	10.93	22.53
COMPUTER PROGRAMMER AIDES	70	0.08	14.12	9.34
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.02	36.17	1.65
LAWYERS AND RELATED OCCUPATIONS	20	0.02	N.A.	N.A.
LAWYERS	20	0.02	25.24	3.85
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	170	0.21	N.A.	N.A.
REGISTERED NURSES	90	0.11	6.07	18.13
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	80	0.10	14.90	10.44
WRITERS AND EDITORS	10	0.01	36.81	1.65
DESIGNERS-EXCEPT INTERIOR DESIGNERS	40	0.05	30.41	1.65
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	210	0.26	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	2,180	2.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	330	0.41	18.62	24.18
SALES ENGINEERS	240	0.30	36.78	7.14
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	470	0.58	17.93	20.33
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	890	1.11	16.29	20.33
ALL OTHER SALES AND RELATED WORKERS	250	0.31	36.76	8.24
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	9,040	11.21	N.A.	N.A.

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	610	0.76	8.55	45.05
ADJUSTMENT CLERKS	240	0.30	20.66	13.74
SECRETARIES	1,770	2.22	7.59	74.18
STENOGRAPHERS	170	0.21	29.09	5.49
RECEPTIONISTS AND INFORMATION CLERKS	130	0.16	13.62	24.73
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	240	0.30	11.79	12.09
TYPISTS-WORD PROCESSING EQUIPMENT	100	0.12	13.32	12.09
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	190	0.23	5.95	31.87
FILE CLERKS	30	0.03	26.05	6.59
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	240	0.30	15.17	22.53
PROCUREMENT CLERKS	160	0.20	10.10	26.37
STATISTICAL CLERKS	50	0.06	18.94	7.69
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	770	0.96	7.35	57.69
PAYROLL AND TIMEKEEPING CLERKS	150	0.18	7.92	32.97
BILLING, COST AND RATE CLERKS	150	0.18	16.31	20.88
GENERAL OFFICE CLERKS	980	1.22	8.40	45.05
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	300	0.35	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	150	0.18	7.98	23.08
PERIPHERAL EDP EQUIPMENT OPERATORS	20	0.02	26.27	3.85
DATA ENTRY KEYERS-EXCEPT COMPOSING	100	0.12	11.60	20.88
ALL OTHER OFFICE MACHINE OPERATORS	30	0.03	34.41	2.75
SWITCHBOARD OPERATORS	120	0.15	9.03	31.87
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	60	0.07	13.22	14.29
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	2,320	2.89	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	580	0.72	10.52	33.52
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	80	0.10	27.86	8.24
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	640	0.80	14.47	40.11
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	930	1.16	9.84	52.20
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	90	0.11	16.18	7.14
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	260	0.32	31.47	11.54
SERVICE OCCUPATIONS	940	1.16	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	130	0.16	15.60	13.74
GUARDS AND WATCH GUARDS	380	0.47	6.05	15.38
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	360	0.45	10.19	24.18
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	30	0.03	38.94	2.75

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	180	0.21	N.A.	N.A.
GARDENERS AND GROUNDSKEEPERS-EXCEPT FARM	30	0.03	34.00	4.40
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	150	0.18	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	46,610	58.21	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	5,220	6.53	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	870	1.09	7.40	34.62
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	160	0.20	15.35	13.74
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	3,660	4.59	3.74	78.57
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	230	0.28	7.52	30.77
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	160	0.20	20.18	16.48
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	140	0.17	37.45	6.04
PRECISION INSPECTORS, TESTERS, AND GRADERS	130	0.16	14.97	9.89
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	780	0.97	13.41	23.08
MECHANICS, INSTALLERS, AND REPAIRERS	6,510	8.12	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	650	0.81	18.39	11.54
ALL OTHER MACHINERY MAINTENANCE MECHANICS	680	0.85	11.55	15.93
MILLWRIGHTS	150	0.18	18.11	4.95
MACHINERY MAINTENANCE WORKERS	60	0.07	21.52	4.95
MAINTENANCE REPAIRERS-GENERAL UTILITY	2,590	3.25	12.03	45.60
AUTOMOTIVE MECHANICS	60	0.07	24.50	6.59
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	70	0.08	12.20	8.24
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	70	0.08	17.86	6.59
PRECISION INSTRUMENT REPAIRERS	1,460	1.83	6.01	23.08
MECHANICAL CONTROL AND VALVE INSTALLERS AND REPAIRERS	160	0.20	25.32	4.40
RIGGERS	160	0.20	16.23	5.49
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	400	0.50	41.85	4.95
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	2,700	3.37	N.A.	N.A.
CARPENTERS	340	0.42	16.37	12.09

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	1,030	1.29	5.77	29.67
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	180	0.22	16.17	8.24
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	1,060	1.33	9.77	8.79
INSULATION OCCUPATIONS	90	0.11	12.95	3.85
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	90	0.11	39.80	3.85
PRECISION PRODUCTION OCCUPATIONS	1,250	1.54	N.A.	N.A.
MACHINISTS	850	1.06	13.13	16.48
SHEET METAL OCCUPATIONS	140	0.17	15.89	4.95
BOILERMAKERS	180	0.22	19.61	4.40
ALL OTHER PRECISION METAL WORKERS	70	0.08	45.62	1.65
ALL OTHER PRECISION WORKERS	10	0.01	32.35	1.65
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	60	0.07	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	13,480	16.87	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	220	0.27	24.19	6.04
BOILER OPERATORS AND TENDERS-LOW PRESSURE	200	0.25	11.74	8.79
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	5,570	6.99	10.25	27.47
CHEMICAL EQUIPMENT TENDERS	950	1.19	23.81	9.34
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	70	0.08	33.59	3.85
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	400	0.50	19.85	6.59
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	1,600	2.00	11.71	30.22
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	70	0.08	34.16	4.95
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	3,560	4.46	7.30	31.87
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	160	0.20	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	680	0.85	13.09	6.59
OTHER HANDWORKING OCCUPATIONS	1,340	1.67	N.A.	N.A.
WELDERS AND CUTTERS	260	0.32	14.78	13.19
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,080	1.35	17.66	6.04
PLANT AND SYSTEM OCCUPATIONS	7,850	9.82	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	110	0.13	16.49	6.04
CHEMICAL PLANT AND SYSTEM OPERATORS	6,960	8.73	8.78	34.62
POWER DISTRIBUTORS AND DISPATCHERS	290	0.36	34.03	3.30
STATIONARY ENGINEERS	110	0.13	15.58	4.95

SIC 28 CHEMICALS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PLANT AND SYSTEM OPERATORS	380	0.47	34.33	4.95
MOTOR VEHICLE OPERATORS	1,320	1.65	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	800	1.00	12.54	28.02
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	520	0.65	21.06	20.33
ALL OTHER TRANSPORTATION AND RELATED WORKERS	20	0.02	25.42	1.10
MATERIAL MOVING EQUIPMENT OPERATORS	1,430	1.78	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	640	0.80	11.80	17.58
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	600	0.75	11.90	25.27
CONVEYOR OPERATORS AND TENDERS	70	0.08	9.92	3.85
PUMP OPERATORS	40	0.05	23.79	4.40
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	80	0.10	18.55	5.49
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,410	5.51	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	120	0.15	23.51	7.69
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	70	0.08	36.55	2.20
MACHINE FEEDERS AND OFFBEARERS	320	0.40	22.11	8.24
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,290	1.61	9.07	30.77
HAND PACKERS AND PACKAGERS	640	0.80	23.97	15.38
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,970	2.47	7.92	26.92
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	20	0.02	N.A.	N.A.

SIC 281 INDUSTRIAL INORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	7,300	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	440	5.98	N.A.	N.A.
FINANCIAL MANAGERS	40	0.54	10.01	60.71
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.27	24.84	53.57
PURCHASING MANAGERS	20	0.27	31.76	42.86
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.27	12.48	32.14
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.54	7.90	42.86
INDUSTRIAL PRODUCTION MANAGERS	120	1.64	18.55	78.57
GENERAL MANAGERS AND TOP EXECUTIVES	150	2.05	23.36	78.57
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.27	15.22	28.57
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	740	10.05	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	60	0.81	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	50	0.68	14.98	57.14
ALL OTHER FINANCIAL SPECIALISTS	10	0.13	19.50	7.14
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.41	25.52	50.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.27	0.00	25.00
ENGINEERS	270	3.67	N.A.	N.A.
CHEMICAL ENGINEERS	150	2.05	9.97	53.57
CIVIL ENGINEERS-INCLUDING TRAFFIC	20	0.27	5.35	21.43
ELECTRICAL AND ELECTRONIC ENGINEERS	20	0.27	2.87	32.14
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.27	33.55	17.86
SAFETY ENGINEERS-EXCEPT MINING	20	0.27	0.55	28.57
MECHANICAL ENGINEERS	40	0.54	21.40	39.29
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	70	0.95	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.41	7.40	14.29
DRAFTERS	20	0.27	14.95	32.14
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.27	5.00	3.57
PHYSICAL SCIENTISTS	70	0.95	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	60	0.82	13.47	50.00
ALL OTHER PHYSICAL SCIENTISTS	10	0.13	26.67	17.86
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	140	1.91	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	140	1.91	12.99	50.00
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.27	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.27	24.93	32.14
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.13	N.A.	N.A.

SIC 281 INDUSTRIAL INORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
REGISTERED NURSES	10	0.13	19.38	14.29
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	0.68	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	240	3.27	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	80	1.09	39.45	25.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	0.82	43.91	14.29
ALL OTHER SALES AND RELATED WORKERS	100	1.36	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	850	11.58	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.82	20.10	46.43
ADJUSTMENT CLERKS	30	0.41	2.34	21.43
SECRETARIES	130	1.78	23.13	71.43
RECEPTIONISTS AND INFORMATION CLERKS	10	0.13	33.10	28.57
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.27	17.97	35.71
PROCUREMENT CLERKS	20	0.27	2.66	39.29
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	120	1.64	18.91	75.00
PAYROLL AND TIMEKEEPING CLERKS	10	0.13	22.53	39.29
GENERAL OFFICE CLERKS	70	0.95	29.51	39.29
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.27	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.27	6.82	21.43
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	300	4.09	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	0.54	3.53	28.57
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	50	0.68	39.43	10.71
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	0.82	35.24	42.86
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	150	2.05	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	0.82	N.A.	N.A.
SERVICE OCCUPATIONS	60	0.81	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.27	29.92	14.29
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.41	30.52	17.86
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,970	67.88	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	620	8.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	120	1.64	23.51	57.14

SIC 281 INDUSTRIAL INORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	20	0.27	19.46	21.43
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	450	6.16	8.19	85.71
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.41	8.29	39.29
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	70	0.95	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	770	10.50	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	240	3.28	39.43	21.43
ALL OTHER MACHINERY MAINTENANCE MECHANICS	30	0.41	24.05	14.29
MILLWRIGHTS	70	0.95	30.15	7.14
MAINTENANCE REPAIRERS-GENERAL UTILITY	210	2.87	21.66	53.57
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	40	0.54	0.28	25.00
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	20	0.27	N.A.	N.A.
PRECISION INSTRUMENT REPAIRERS	130	1.78	13.55	39.29
RIGGERS	20	0.27	25.50	10.71
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	10	0.13	39.86	3.57
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	220	3.00	N.A.	N.A.
CARPENTERS	20	0.27	24.53	17.86
ELECTRICIANS	130	1.78	15.37	42.86
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	70	0.95	40.43	10.71
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	20	0.27	46.74	3.57
PRECISION PRODUCTION OCCUPATIONS	60	0.82	N.A.	N.A.
MACHINISTS	60	0.82	8.15	17.86
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,000	13.66	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	80	1.09	24.79	10.71
BOILER OPERATORS AND TENDERS-LOW PRESSURE	30	0.41	1.84	14.29
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	260	3.56	28.58	25.00
CHEMICAL EQUIPMENT TENDERS	130	1.78	43.35	21.43
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	50	0.68	38.23	7.14
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	160	2.19	40.78	14.29
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	120	1.64	49.50	25.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	80	1.09	42.40	28.57

SIC 281 INDUSTRIAL INORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.27	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	70	0.95	36.01	7.14
OTHER HANDWORKING OCCUPATIONS	80	1.09	N.A.	N.A.
WELDERS AND CUTTERS	80	1.09	31.51	25.00
PLANT AND SYSTEM OCCUPATIONS	1,050	14.36	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	20	0.27	18.55	14.29
CHEMICAL PLANT AND SYSTEM OPERATORS	900	12.32	23.21	57.14
STATIONARY ENGINEERS	80	1.09	15.34	10.71
ALL OTHER PLANT AND SYSTEM OPERATORS	50	0.68	1.61	7.14
MOTOR VEHICLE OPERATORS	470	6.43	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	340	4.65	20.23	53.57
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	130	1.78	46.57	21.43
MATERIAL MOVING EQUIPMENT OPERATORS	220	3.00	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	120	1.64	6.12	32.14
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	0.27	7.37	14.29
CONVEYOR OPERATORS AND TENDERS	20	0.27	9.95	7.14
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	60	0.82	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	350	4.78	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	1.36	23.92	32.14
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	250	3.42	N.A.	N.A.

SIC 282 PLASTICS MATERIALS AND SYNTHETICS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	10,320	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	740	7.09	N.A.	N.A.
FINANCIAL MANAGERS	60	0.57	14.50	72.73
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	50	0.48	13.36	72.73
PURCHASING MANAGERS	30	0.28	17.91	54.55
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	60	0.57	30.50	18.18
ADMINISTRATIVE SERVICES MANAGERS	20	0.19	19.42	27.27
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	70	0.67	15.06	54.55
INDUSTRIAL PRODUCTION MANAGERS	130	1.25	11.71	86.36
GENERAL MANAGERS AND TOP EXECUTIVES	160	1.54	19.23	0.00
ALL OTHER MANAGERS AND ADMINISTRATORS	160	1.54	19.41	54.55
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	2,060	19.77	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	110	1.06	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	110	1.06	23.19	54.55
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	60	0.57	13.13	72.73
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	60	0.57	9.92	59.09
COST ESTIMATORS	10	0.09	34.24	13.64
COMPLIANCE OFFICERS AND ENFORCEMENT INSPECTORS-EXCEPT CONSTRUCTION	20	0.19	22.52	27.27
ALL OTHER MANAGEMENT SUPPORT WORKERS	110	1.06	N.A.	N.A.
ENGINEERS	580	5.57	N.A.	N.A.
CHEMICAL ENGINEERS	280	2.70	9.94	81.82
CIVIL ENGINEERS-INCLUDING TRAFFIC	20	0.19	28.20	18.18
ELECTRICAL AND ELECTRONIC ENGINEERS	50	0.48	13.53	59.09
COMPUTER ENGINEERS	20	0.19	28.46	18.18
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	80	0.77	45.90	27.27
SAFETY ENGINEERS-EXCEPT MINING	20	0.19	20.03	31.82
MECHANICAL ENGINEERS	90	0.86	14.38	54.55
ALL OTHER ENGINEERS	20	0.19	41.04	18.18
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	90	0.85	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.38	49.32	27.27
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.19	33.44	18.18
DRAFTERS	10	0.09	18.15	31.82
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.19	41.94	4.55
PHYSICAL SCIENTISTS	260	2.50	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	240	2.31	23.86	81.82

SIC 282 PLASTICS MATERIALS AND SYNTHETICS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PHYSICAL SCIENTISTS	20	0.19	28.20	18.18
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	650	6.27	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	650	6.27	8.21	81.82
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	50	0.47	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.19	18.70	31.82
COMPUTER PROGRAMMERS	30	0.28	14.94	36.36
LAWYERS AND RELATED OCCUPATIONS	10	0.09	N.A.	N.A.
LAWYERS	10	0.09	35.46	13.64
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	0.48	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	130	1.24	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	0.28	30.39	18.18
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	80	0.77	33.55	13.64
ALL OTHER SALES AND RELATED WORKERS	20	0.19	32.59	9.09
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	890	8.46	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	70	0.67	22.31	50.00
ADJUSTMENT CLERKS	30	0.28	22.59	22.73
SECRETARIES	240	2.31	17.33	86.36
RECEPTIONISTS AND INFORMATION CLERKS	20	0.19	23.51	40.91
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.19	38.73	18.18
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.09	38.09	13.64
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.19	18.52	45.45
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	40	0.38	22.33	31.82
PROCUREMENT CLERKS	20	0.19	19.05	36.36
STATISTICAL CLERKS	10	0.09	41.95	18.18
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	60	0.57	18.86	59.09
PAYROLL AND TIMEKEEPING CLERKS	30	0.28	19.50	54.55
BILLING, COST AND RATE CLERKS	40	0.38	19.42	36.36
GENERAL OFFICE CLERKS	60	0.57	13.35	54.55
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	40	0.38	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.19	16.03	40.91
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.19	47.90	40.91
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	10	0.09	25.22	31.82
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	140	1.33	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.28	19.84	36.36
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	70	0.67	11.81	59.09

SIC 282 PLASTICS MATERIALS AND SYNTHETICS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	0.38	22.85	54.55
SERVICE OCCUPATIONS	140	1.33	N.A.	N.A.
GUARDS AND WATCH GUARDS	60	0.57	18.28	36.36
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	60	0.57	26.02	27.27
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,360	61.20	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	760	7.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	90	0.86	19.01	40.91
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	20	0.19	31.54	13.64
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	580	5.59	6.22	95.45
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.28	16.00	40.91
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	0.38	26.73	31.82
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	0.28	39.80	22.73
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	0.57	40.46	22.73
MECHANICS, INSTALLERS, AND REPAIRERS	1,140	10.97	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	160	1.54	36.92	9.09
ALL OTHER MACHINERY MAINTENANCE MECHANICS	250	2.41	23.29	22.73
MACHINERY MAINTENANCE WORKERS	10	0.09	43.33	4.55
MAINTENANCE REPAIRERS-GENERAL UTILITY	560	5.40	20.53	50.00
PRECISION INSTRUMENT REPAIRERS	120	1.15	19.77	31.82
MECHANICAL CONTROL AND VALVE INSTALLERS AND REPAIRERS	40	0.38	40.40	9.09
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	220	2.11	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	20	0.19	N.A.	N.A.
ELECTRICIANS	100	0.96	18.59	36.36
ALL OTHER PLUMBING AND RELATED WORKERS	100	0.96	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	30	0.28	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	30	0.28	N.A.	N.A.
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	50	0.48	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,950	18.79	N.A.	N.A.

SIC 282 PLASTICS MATERIALS AND SYNTHETICS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOILER OPERATORS AND TENDERS-LOW PRESSURE	60	0.57	28.19	13.64
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	1,420	13.70	19.35	50.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	200	1.93	33.13	18.18
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	10	0.09	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	260	2.50	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	1,380	13.31	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	20	0.19	46.06	4.55
CHEMICAL PLANT AND SYSTEM OPERATORS	1,160	11.19	15.92	40.91
POWER DISTRIBUTORS AND DISPATCHERS	200	1.93	47.07	9.09
MATERIAL MOVING EQUIPMENT OPERATORS	90	0.86	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	90	0.86	33.19	36.36
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	410	3.94	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	50	0.48	41.69	9.09
MACHINE FEEDERS AND OFFBEARERS	50	0.48	42.13	4.55
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	130	1.25	31.09	18.18
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	180	1.73	14.13	31.82
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	240	2.31	N.A.	N.A.

SIC 283 DRUGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,870	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	200	4.03	N.A.	N.A.
FINANCIAL MANAGERS	20	0.40	28.20	57.14
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.20	17.17	35.71
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.40	37.10	57.14
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.40	16.87	42.86
INDUSTRIAL PRODUCTION MANAGERS	50	1.01	11.07	64.29
GENERAL MANAGERS AND TOP EXECUTIVES	40	0.81	23.39	85.71
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	400	8.06	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.40	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.40	17.47	50.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.20	22.30	35.71
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.20	5.30	28.57
ENGINEERS	20	0.40	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.40	0.00	14.29
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.60	N.A.	N.A.
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.40	0.00	14.29
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.20	N.A.	N.A.
PHYSICAL SCIENTISTS	40	0.81	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	40	0.81	28.02	71.43
LIFE SCIENTISTS	60	1.21	N.A.	N.A.
BIOLOGICAL SCIENTISTS	60	1.21	44.15	42.86
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	110	2.22	N.A.	N.A.
BIOLOGICAL, AGRICULTURAL, AND FOOD TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	70	1.41	11.64	21.43
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	40	0.81	25.43	35.71
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	100	2.02	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	100	2.02	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	100	2.02	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	470	9.47	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.40	39.52	50.00
SECRETARIES	60	1.21	23.81	71.43
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	10	0.20	48.71	28.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.60	16.28	71.43

SIC 283 DRUGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GENERAL OFFICE CLERKS	130	2.63	6.71	50.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	0.60	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.60	26.57	42.86
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	140	2.82	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.60	11.10	57.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.20	5.57	28.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	1.21	24.52	71.43
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	40	0.81	2.26	21.43
SERVICE OCCUPATIONS	100	2.02	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	100	2.02	4.77	28.57
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	140	2.83	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,460	70.09	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	180	3.64	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	0.81	6.02	35.71
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	120	2.43	11.23	64.29
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.40	16.06	35.71
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	180	3.65	12.11	50.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	20	0.40	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	260	5.26	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	200	4.05	3.69	28.57
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	0.81	17.74	50.00
PRECISION INSTRUMENT REPAIRERS	20	0.40	17.21	21.43
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,320	47.02	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	20	0.40	0.00	14.29
BOILER OPERATORS AND TENDERS-LOW PRESSURE	20	0.40	0.00	14.29
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	20	0.40	23.07	14.29
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	20	0.40	33.72	21.43

SIC 283 DRUGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	1,880	38.13	4.46	78.57
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	50	1.01	0.00	14.29
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	310	6.28	3.74	28.57
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	470	9.52	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	80	1.62	23.70	21.43
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	260	5.27	24.30	42.86
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	130	2.63	N.A.	N.A.

SIC 284 SOAP, CLEANERS, AND TOILET GOODS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,970	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	490	9.81	N.A.	N.A.
FINANCIAL MANAGERS	40	0.80	16.74	34.78
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	30	0.60	23.43	30.43
PURCHASING MANAGERS	20	0.40	37.57	21.74
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	70	1.40	29.74	43.48
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	60	1.20	32.02	21.74
INDUSTRIAL PRODUCTION MANAGERS	90	1.80	18.22	69.57
GENERAL MANAGERS AND TOP EXECUTIVES	170	3.41	14.39	78.26
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	560	11.20	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	0.80	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.80	37.79	34.78
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	70	1.40	20.07	52.17
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.20	35.03	8.70
ENGINEERS	10	0.20	N.A.	N.A.
MECHANICAL ENGINEERS	10	0.20	34.07	8.70
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	40	0.80	N.A.	N.A.
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.20	35.03	8.70
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.60	N.A.	N.A.
ALL OTHER ENGINEERS AND RELATED WORKERS	30	0.60	N.A.	N.A.
PHYSICAL SCIENTISTS	120	2.40	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	120	2.40	22.00	52.17
LIFE SCIENTISTS	20	0.40	N.A.	N.A.
BIOLOGICAL SCIENTISTS	20	0.40	42.53	17.39
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	120	2.40	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	120	2.40	22.81	43.48
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	1.20	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	40	0.80	36.58	13.04
COMPUTER PROGRAMMERS	20	0.40	36.24	8.70
SALES AND RELATED OCCUPATIONS	220	4.41	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	150	3.01	45.86	17.39
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	820	16.42	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	1.20	23.09	39.13

SIC 284 SOAP, CLEANERS, AND TOILET GOODS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SECRETARIES	180	3.61	15.09	69.57
RECEPTIONISTS AND INFORMATION CLERKS	20	0.40	41.02	13.04
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.40	39.87	13.04
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.20	23.02	13.04
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	50	1.00	44.45	26.09
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	60	1.20	41.71	30.43
GENERAL OFFICE CLERKS	70	1.40	27.85	34.78
SWITCHBOARD OPERATORS	20	0.40	34.13	13.04
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	10	0.20	39.50	8.70
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	260	5.21	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	50	1.00	29.01	21.74
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	0.80	24.30	30.43
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	170	3.41	30.24	65.22
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.20	N.A.	N.A.
SERVICE OCCUPATIONS	70	1.40	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	10	0.20	42.17	8.70
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	50	1.00	37.08	39.13
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,810	56.33	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	210	4.21	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.40	28.17	21.74
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	190	3.81	25.34	69.57
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	1.40	43.13	17.39
MECHANICS, INSTALLERS, AND REPAIRERS	180	3.60	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	40	0.80	38.69	13.04
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	1.00	37.53	30.43
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	90	1.80	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.40	N.A.	N.A.
ELECTRICIANS	20	0.40	32.52	21.74
PRECISION PRODUCTION OCCUPATIONS	20	0.40	N.A.	N.A.
MACHINISTS	20	0.40	45.19	13.04
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	990	19.86	N.A.	N.A.

SIC 284 SOAP, CLEANERS, AND TOILET GOODS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	310	6.22	25.65	52.17
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	410	8.23	38.68	39.13
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	40	0.80	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	230	4.61	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	280	5.62	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	270	5.42	47.50	13.04
ALL OTHER HAND WORKERS	10	0.20	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	30	0.60	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	30	0.60	N.A.	N.A.
MOTOR VEHICLE OPERATORS	180	3.60	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	80	1.60	31.50	26.09
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	100	2.00	40.48	30.43
MATERIAL MOVING EQUIPMENT OPERATORS	230	4.61	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	160	3.21	25.96	34.78
CONVEYOR OPERATORS AND TENDERS	40	0.80	16.97	13.04
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.60	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	430	8.62	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	20	0.40	44.07	13.04
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	120	2.40	26.29	30.43
HAND PACKERS AND PACKAGERS	290	5.82	45.41	30.43
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	170	3.41	N.A.	N.A.

SIC 285 PAINTS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,460	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	250	7.15	N.A.	N.A.
FINANCIAL MANAGERS	20	0.57	12.91	50.00
PURCHASING MANAGERS	10	0.28	28.56	35.71
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.86	33.37	35.71
INDUSTRIAL PRODUCTION MANAGERS	40	1.14	15.96	57.14
GENERAL MANAGERS AND TOP EXECUTIVES	130	3.73	23.75	92.86
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	310	8.88	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	1.14	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	1.14	26.84	50.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.86	30.63	50.00
ENGINEERS	30	0.86	N.A.	N.A.
CHEMICAL ENGINEERS	30	0.86	36.22	28.57
PHYSICAL SCIENTISTS	100	2.87	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	100	2.87	21.57	64.29
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	70	2.01	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	70	2.01	30.17	42.86
SALES AND RELATED OCCUPATIONS	600	17.23	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	110	3.16	40.46	50.00
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	1.72	45.54	28.57
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	320	9.19	24.52	57.14
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	570	16.31	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.57	44.72	35.71
SECRETARIES	50	1.43	20.50	50.00
RECEPTIONISTS AND INFORMATION CLERKS	10	0.28	23.21	28.57
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.86	39.46	28.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	2.29	30.18	57.14
BILLING, COST AND RATE CLERKS	10	0.28	24.25	35.71
GENERAL OFFICE CLERKS	120	3.44	31.09	71.43
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	200	5.73	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.28	25.80	21.43

SIC 285 PAINTS AND ALLIED PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	1.43	28.56	42.86
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	140	4.02	35.83	57.14
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.43	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.28	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,720	49.33	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	150	4.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	120	3.44	16.12	78.57
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	10	0.28	23.98	28.57
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.57	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	120	3.44	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.57	43.50	14.29
MAINTENANCE REPAIRERS-GENERAL UTILITY	100	2.87	20.55	57.14
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	50	1.43	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	20	0.57	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	20	0.57	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	930	26.70	N.A.	N.A.
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	40	1.14	41.56	14.29
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	460	13.21	20.90	85.71
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	360	10.34	26.64	64.29
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	70	2.01	N.A.	N.A.
MOTOR VEHICLE OPERATORS	60	1.72	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	30	0.86	37.41	28.57
ALL OTHER MOTOR VEHICLE OPERATORS	30	0.86	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	80	2.29	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	2.29	33.10	35.71
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	250	7.17	N.A.	N.A.
HAND PACKERS AND PACKAGERS	80	2.29	34.81	35.71
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	170	4.88	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	1.72	N.A.	N.A.

SIC 286 INDUSTRIAL ORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	36,400	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,220	6.05	N.A.	N.A.
FINANCIAL MANAGERS	120	0.32	12.08	65.71
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	110	0.30	13.85	71.43
PURCHASING MANAGERS	80	0.21	19.89	42.86
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	210	0.57	35.88	31.43
ADMINISTRATIVE SERVICES MANAGERS	30	0.08	16.69	25.71
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	210	0.57	22.32	60.00
INDUSTRIAL PRODUCTION MANAGERS	300	0.82	10.96	82.86
GENERAL MANAGERS AND TOP EXECUTIVES	340	0.93	10.45	85.71
ALL OTHER MANAGERS AND ADMINISTRATORS	820	2.25	17.03	54.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	9,420	25.71	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	420	1.13	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	250	0.68	9.12	62.86
BUDGET ANALYSTS	80	0.21	21.94	25.71
ALL OTHER FINANCIAL SPECIALISTS	90	0.24	28.73	20.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	220	0.60	9.21	71.43
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	190	0.52	8.39	62.86
COST ESTIMATORS	30	0.08	30.92	11.43
COMPLIANCE OFFICERS AND ENFORCEMENT INSPECTORS-EXCEPT CONSTRUCTION	60	0.16	28.92	20.00
ALL OTHER MANAGEMENT SUPPORT WORKERS	400	1.09	14.47	42.86
ENGINEERS	3,280	8.97	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	70	0.19	27.40	22.86
CHEMICAL ENGINEERS	1,670	4.59	5.81	77.14
CIVIL ENGINEERS-INCLUDING TRAFFIC	50	0.13	20.76	22.86
ELECTRICAL AND ELECTRONIC ENGINEERS	380	1.04	12.39	42.86
COMPUTER ENGINEERS	50	0.13	31.87	17.14
SAFETY ENGINEERS-EXCEPT MINING	90	0.24	14.33	60.00
MECHANICAL ENGINEERS	450	1.23	8.85	60.00
ALL OTHER ENGINEERS	520	1.42	33.21	22.86
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	1,120	3.05	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	340	0.93	20.12	37.14
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	240	0.65	12.47	22.86
DRAFTERS	200	0.54	10.41	48.57
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	340	0.93	15.04	34.29

SIC 286 INDUSTRIAL ORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHYSICAL SCIENTISTS	920	2.52	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	860	2.36	13.85	80.00
ALL OTHER PHYSICAL SCIENTISTS	60	0.16	24.94	22.86
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	1,980	5.43	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	1,940	5.33	7.80	82.86
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.10	11.65	8.57
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	550	1.50	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	260	0.71	20.74	45.71
COMPUTER PROGRAMMERS	230	0.63	14.03	45.71
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	60	0.16	36.17	8.57
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	110	0.29	N.A.	N.A.
REGISTERED NURSES	50	0.13	9.46	42.86
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	60	0.16	11.85	40.00
DESIGNERS-EXCEPT INTERIOR DESIGNERS	20	0.05	41.78	2.86
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	120	0.32	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	370	1.00	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	0.10	28.70	20.00
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	70	0.19	30.65	20.00
ALL OTHER SALES AND RELATED WORKERS	260	0.71	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,910	10.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	300	0.82	13.98	62.86
ADJUSTMENT CLERKS	120	0.32	37.95	11.43
SECRETARIES	760	2.08	13.74	85.71
STENOGRAPHERS	160	0.43	31.30	17.14
RECEPTIONISTS AND INFORMATION CLERKS	40	0.10	26.35	31.43
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	180	0.49	13.33	25.71
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.05	38.66	17.14
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	100	0.27	8.49	60.00
FILE CLERKS	10	0.02	40.57	11.43
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	50	0.13	37.25	17.14
PROCUREMENT CLERKS	80	0.21	17.55	42.86
STATISTICAL CLERKS	20	0.05	33.06	11.43

SIC 286 INDUSTRIAL ORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	280	0.76	9.24	68.57
PAYROLL AND TIMEKEEPING CLERKS	60	0.16	13.71	42.86
BILLING, COST AND RATE CLERKS	50	0.13	21.83	28.57
GENERAL OFFICE CLERKS	340	0.93	15.03	51.43
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	150	0.39	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	80	0.21	10.27	40.00
DATA ENTRY KEYERS-EXCEPT COMPOSING	40	0.10	12.98	37.14
ALL OTHER OFFICE MACHINE OPERATORS	30	0.08	42.17	8.57
SWITCHBOARD OPERATORS	40	0.10	14.32	57.14
MAIL CLERKS-EXCEPT MAIL MACHINE OPERATORS AND POSTAL SERVICE	20	0.05	16.42	25.71
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	900	2.45	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	360	0.98	16.19	45.71
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	220	0.60	14.39	51.43
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	300	0.82	13.63	51.43
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.05	34.95	11.43
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	230	0.63	35.97	28.57
SERVICE OCCUPATIONS	380	1.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	70	0.19	17.63	28.57
GUARDS AND WATCH GUARDS	230	0.63	8.06	31.43
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	70	0.19	31.56	17.14
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	20	0.05	N.A.	N.A.
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	20	0.05	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	20,080	54.94	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	2,590	7.08	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	480	1.31	11.48	48.57
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	80	0.21	24.68	22.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,780	4.89	6.12	82.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	90	0.24	13.19	42.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	50	0.13	28.33	25.71

SIC 286 INDUSTRIAL ORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	110	0.30	48.37	8.57
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	0.10	15.13	11.43
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	240	0.65	32.49	22.86
MECHANICS, INSTALLERS, AND REPAIRERS	3,370	9.22	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS-WATER AND POWER GENERATION PLANT	180	0.49	21.40	14.29
ALL OTHER MACHINERY MAINTENANCE MECHANICS	130	0.35	30.08	20.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	1,260	3.46	22.34	37.14
AUTOMOTIVE MECHANICS	20	0.05	35.45	5.71
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.05	44.93	8.57
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	60	0.16	23.61	20.00
PRECISION INSTRUMENT REPAIRERS	1,060	2.91	7.68	45.71
MECHANICAL CONTROL AND VALVE INSTALLERS AND REPAIRERS	110	0.30	32.60	11.43
RIGGERS	100	0.27	24.00	17.14
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	430	1.18	43.02	20.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,760	4.80	N.A.	N.A.
CARPENTERS	260	0.71	21.05	25.71
ELECTRICIANS	640	1.75	7.99	48.57
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	100	0.27	14.40	20.00
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	720	1.97	13.21	25.71
INSULATION OCCUPATIONS	40	0.10	27.05	14.29
PRECISION PRODUCTION OCCUPATIONS	890	2.44	N.A.	N.A.
MACHINISTS	590	1.62	17.35	31.43
BOILERMAKERS	150	0.41	21.78	17.14
ALL OTHER PRECISION WORKERS	150	0.41	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	4,110	11.28	N.A.	N.A.
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	3,060	8.41	15.79	37.14
CHEMICAL EQUIPMENT TENDERS	500	1.37	41.43	8.57
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	100	0.27	47.39	14.29
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	450	1.23	40.69	2.86
OTHER HANDWORKING OCCUPATIONS	120	0.32	N.A.	N.A.
WELDERS AND CUTTERS	120	0.32	20.29	22.86
PLANT AND SYSTEM OCCUPATIONS	4,550	12.49	N.A.	N.A.
CHEMICAL PLANT AND SYSTEM OPERATORS	4,300	11.81	12.38	60.00

SIC 286 INDUSTRIAL ORGANIC CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PLANT AND SYSTEM OPERATORS	250	0.68	N.A.	N.A.
MOTOR VEHICLE OPERATORS	130	0.34	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	80	0.21	44.94	20.00
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	50	0.13	25.03	14.29
ALL OTHER TRANSPORTATION AND RELATED WORKERS	20	0.05	25.42	5.71
MATERIAL MOVING EQUIPMENT OPERATORS	520	1.41	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	390	1.07	18.26	37.14
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	90	0.24	22.82	22.86
PUMP OPERATORS	10	0.02	31.12	5.71
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.08	26.27	14.29
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,640	4.49	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	60	0.16	40.33	11.43
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	370	1.01	13.85	28.57
HAND PACKERS AND PACKAGERS	30	0.08	48.66	5.71
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,180	3.24	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	0.27	N.A.	N.A.

SIC 287 AGRICULTURAL CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,500	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	350	7.75	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.22	8.90	21.05
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	100	2.22	0.75	15.79
ALL OTHER ADMINISTRATIVE MANAGERS	60	1.33	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	120	2.66	20.27	57.89
GENERAL MANAGERS AND TOP EXECUTIVES	40	0.88	22.21	73.68
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.44	24.48	15.79
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	670	14.84	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.22	22.90	26.32
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.22	9.74	15.79
ENGINEERS	280	6.21	N.A.	N.A.
CHEMICAL ENGINEERS	180	4.00	2.31	31.58
CIVIL ENGINEERS-INCLUDING TRAFFIC	10	0.22	13.01	21.05
ELECTRICAL AND ELECTRONIC ENGINEERS	30	0.66	2.20	15.79
SAFETY ENGINEERS-EXCEPT MINING	10	0.22	8.87	15.79
MECHANICAL ENGINEERS	50	1.11	1.56	15.79
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.66	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.66	0.00	5.26
PHYSICAL SCIENTISTS	60	1.33	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	60	1.33	8.05	47.37
LIFE SCIENTISTS	20	0.44	N.A.	N.A.
ALL OTHER LIFE SCIENTISTS	20	0.44	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	170	3.77	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	170	3.77	4.82	26.32
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.44	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.44	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	70	1.55	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	80	1.77	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.44	14.53	36.84
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	50	1.11	41.21	31.58
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	420	9.29	N.A.	N.A.

SIC 287 AGRICULTURAL CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.44	43.82	31.58
SECRETARIES	80	1.77	22.24	63.16
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.22	8.24	21.05
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	10	0.22	46.65	15.79
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	0.88	25.65	47.37
PAYROLL AND TIMEKEEPING CLERKS	10	0.22	9.53	31.58
GENERAL OFFICE CLERKS	90	2.00	38.42	47.37
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	2.21	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.66	3.77	26.32
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	1.11	7.93	31.58
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	20	0.44	7.57	26.32
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.33	N.A.	N.A.
SERVICE OCCUPATIONS	30	0.66	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,950	65.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	320	7.10	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	100	2.22	3.51	31.58
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	220	4.88	9.50	73.68
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	0.44	46.97	10.53
MECHANICS, INSTALLERS, AND REPAIRERS	380	8.43	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	200	4.44	8.40	52.63
AUTOMOTIVE MECHANICS	10	0.22	15.91	15.79
RIGGERS	30	0.66	0.00	5.26
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	140	3.11	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	350	7.76	N.A.	N.A.
CARPENTERS	30	0.66	12.60	15.79
ELECTRICIANS	100	2.22	8.71	31.58
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	20	0.44	15.42	15.79
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	150	3.33	0.00	5.26
ALL OTHER CONSTRUCTION TRADES WORKERS	50	1.11	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	110	2.44	N.A.	N.A.
MACHINISTS	90	2.00	2.62	10.53

SIC 287 AGRICULTURAL CHEMICALS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SHEET METAL OCCUPATIONS	20	0.44	0.00	5.26
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	840	18.66	N.A.	N.A.
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	460	10.22	11.01	31.58
CHEMICAL EQUIPMENT TENDERS	100	2.22	13.45	10.53
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	100	2.22	32.36	26.32
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	180	4.00	22.82	42.11
OTHER HANDWORKING OCCUPATIONS	20	0.44	N.A.	N.A.
WELDERS AND CUTTERS	20	0.44	7.97	15.79
PLANT AND SYSTEM OCCUPATIONS	270	5.99	N.A.	N.A.
CHEMICAL PLANT AND SYSTEM OPERATORS	230	5.11	13.68	26.32
ALL OTHER PLANT AND SYSTEM OPERATORS	40	0.88	0.00	5.26
MOTOR VEHICLE OPERATORS	160	3.54	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	120	2.66	33.74	47.37
ALL OTHER MOTOR VEHICLE OPERATORS	40	0.88	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	110	2.43	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	70	1.55	7.36	15.79
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	0.66	23.67	26.32
CONVEYOR OPERATORS AND TENDERS	10	0.22	0.00	5.26
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	230	5.10	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	120	2.66	31.93	36.84
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	110	2.44	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	140	3.11	N.A.	N.A.

SIC 289 MISCELLANEOUS CHEMICAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	7,750	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	660	8.47	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.25	36.23	25.93
PURCHASING MANAGERS	20	0.25	48.48	33.33
ADMINISTRATIVE SERVICES MANAGERS	20	0.25	47.66	14.81
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	60	0.77	34.31	33.33
ALL OTHER ADMINISTRATIVE MANAGERS	130	1.67	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	150	1.93	17.19	81.48
GENERAL MANAGERS AND TOP EXECUTIVES	210	2.71	14.80	74.07
ALL OTHER MANAGERS AND ADMINISTRATORS	50	0.64	28.30	14.81
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,230	15.76	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	90	1.15	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	70	0.90	23.40	37.04
ALL OTHER FINANCIAL SPECIALISTS	20	0.25	6.92	7.41
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	50	0.64	20.19	40.74
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.25	27.39	25.93
ALL OTHER MANAGEMENT SUPPORT WORKERS	60	0.77	N.A.	N.A.
ENGINEERS	360	4.60	N.A.	N.A.
CHEMICAL ENGINEERS	40	0.51	33.33	37.04
CIVIL ENGINEERS-INCLUDING TRAFFIC	10	0.12	24.24	11.11
ELECTRICAL AND ELECTRONIC ENGINEERS	60	0.77	44.08	14.81
COMPUTER ENGINEERS	20	0.25	37.98	11.11
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.25	12.96	7.41
SAFETY ENGINEERS-EXCEPT MINING	20	0.25	27.45	18.52
MECHANICAL ENGINEERS	190	2.45	35.17	37.04
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	110	1.40	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.51	47.66	14.81
DRAFTERS	40	0.51	44.80	14.81
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.38	N.A.	N.A.
PHYSICAL SCIENTISTS	200	2.58	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	200	2.58	34.16	55.56
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	240	3.10	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	240	3.10	32.07	37.04
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	30	0.37	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.25	18.45	18.52
COMPUTER PROGRAMMERS	10	0.12	26.68	22.22

SIC 289 MISCELLANEOUS CHEMICAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	70	0.90	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	430	5.54	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	70	0.90	33.07	29.63
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	80	1.03	34.83	18.52
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	170	2.19	40.83	25.93
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,080	13.82	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.77	21.29	33.33
ADJUSTMENT CLERKS	40	0.51	44.23	18.52
SECRETARIES	260	3.35	21.20	77.78
RECEPTIONISTS AND INFORMATION CLERKS	20	0.25	41.39	22.22
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.12	42.36	11.11
TYPISTS-WORD PROCESSING EQUIPMENT	30	0.38	8.77	11.11
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.12	26.95	18.52
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.38	33.90	22.22
PROCUREMENT CLERKS	20	0.25	31.77	25.93
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	100	1.29	24.28	48.15
PAYROLL AND TIMEKEEPING CLERKS	10	0.12	30.82	14.81
GENERAL OFFICE CLERKS	100	1.29	24.53	25.93
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.25	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.25	22.74	22.22
SWITCHBOARD OPERATORS	30	0.38	15.33	44.44
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	270	3.46	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.38	21.46	29.63
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	60	0.77	15.36	33.33
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	150	1.93	21.17	55.56
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	30	0.38	41.48	11.11
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.90	N.A.	N.A.
SERVICE OCCUPATIONS	150	1.91	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	30	0.38	48.73	14.81
GUARDS AND WATCH GUARDS	60	0.77	5.35	11.11
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	0.51	26.92	25.93

SIC 289 MISCELLANEOUS CHEMICAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.12	N.A.	N.A.
ALL OTHER AGRICULTURAL, FORESTRY, FISHING, AND RELATED WORKERS	10	0.12	0.00	3.70
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,190	53.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	290	3.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.25	18.06	11.11
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	200	2.58	15.48	70.37
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	30	0.38	33.97	22.22
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.25	36.39	14.81
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.25	0.00	3.70
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	0.38	11.68	11.11
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	140	1.80	15.76	37.04
MECHANICS, INSTALLERS, AND REPAIRERS	260	3.32	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	20	0.25	46.98	11.11
MAINTENANCE REPAIRERS-GENERAL UTILITY	160	2.06	19.14	44.44
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.25	24.91	11.11
PRECISION INSTRUMENT REPAIRERS	10	0.12	24.89	7.41
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	50	0.64	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	60	0.76	N.A.	N.A.
ELECTRICIANS	40	0.51	17.42	11.11
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.25	0.00	3.70
PRECISION PRODUCTION OCCUPATIONS	120	1.55	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	120	1.55	N.A.	N.A.
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	10	0.12	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,150	14.82	N.A.	N.A.
BOILER OPERATORS AND TENDERS-LOW PRESSURE	20	0.25	26.74	11.11
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	160	2.06	23.64	25.93
CHEMICAL EQUIPMENT TENDERS	210	2.71	35.70	18.52
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	280	3.61	26.24	37.04
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	360	4.65	32.80	29.63

SIC 289 MISCELLANEOUS CHEMICAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.25	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	100	1.29	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	810	10.45	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	790	10.20	17.76	22.22
ALL OTHER HAND WORKERS	20	0.25	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	340	4.39	N.A.	N.A.
CHEMICAL PLANT AND SYSTEM OPERATORS	340	4.39	31.39	37.04
MOTOR VEHICLE OPERATORS	290	3.73	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	130	1.67	28.07	29.63
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	160	2.06	41.21	25.93
MATERIAL MOVING EQUIPMENT OPERATORS	120	1.55	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	120	1.55	29.69	25.93
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	320	4.12	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	60	0.77	46.80	14.81
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	110	1.42	22.90	29.63
HAND PACKERS AND PACKAGERS	150	1.93	40.32	22.22
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	250	3.22	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 29 - PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials.

SIC 291 - PETROLEUM REFINING

Establishments that are primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, and lubricants, through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes are in this industry.

SIC 295 - ASPHALT PAVING AND ROOFING MATERIALS

This industry group includes establishments primarily engaged in manufacturing asphalt paving mixtures and blocks; and asphalt felts and coatings.

SIC 299 - MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL

This industry group includes establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials; and manufacturing packaged fuel, powdered fuel, and other products of petroleum and coal, not elsewhere classified.

SIC 29 PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	29,340	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,230	4.14	N.A.	N.A.
FINANCIAL MANAGERS	80	0.27	20.03	34.33
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	80	0.27	14.90	46.27
PURCHASING MANAGERS	20	0.06	14.54	22.39
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	90	0.30	18.97	25.37
ADMINISTRATIVE SERVICES MANAGERS	40	0.13	27.52	22.39
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	120	0.40	17.03	34.33
INDUSTRIAL PRODUCTION MANAGERS	230	0.78	25.52	61.19
MINING, QUARRYING, AND OIL AND GAS WELL DRILLING MANAGERS	20	0.06	32.06	5.97
GENERAL MANAGERS AND TOP EXECUTIVES	400	1.36	32.60	85.07
ALL OTHER MANAGERS AND ADMINISTRATORS	150	0.51	16.93	29.85
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	4,660	15.72	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	320	1.08	N.A.	N.A.
BUDGET ANALYSTS	60	0.20	21.76	16.42
ALL OTHER FINANCIAL SPECIALISTS	260	0.88	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	130	0.44	21.94	35.82
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	180	0.61	22.12	31.34
COST ESTIMATORS	30	0.10	22.67	13.43
ALL OTHER MANAGEMENT SUPPORT WORKERS	170	0.57	20.85	25.37
ENGINEERS	1,830	6.19	N.A.	N.A.
PETROLEUM ENGINEERS	200	0.68	28.10	10.45
CHEMICAL ENGINEERS	580	1.97	9.01	34.33
CIVIL ENGINEERS-INCLUDING TRAFFIC	170	0.57	22.91	16.42
ELECTRICAL AND ELECTRONIC ENGINEERS	250	0.85	23.31	16.42
COMPUTER ENGINEERS	150	0.51	49.60	10.45
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	140	0.47	48.68	11.94
SAFETY ENGINEERS-EXCEPT MINING	90	0.30	16.15	29.85
MECHANICAL ENGINEERS	190	0.64	9.71	31.34
ALL OTHER ENGINEERS	60	0.20	21.62	13.43
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	630	2.12	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	210	0.71	31.23	11.94
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	160	0.54	35.43	2.99
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	60	0.20	30.33	7.46
DRAFTERS	140	0.47	9.48	20.90
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	0.20	33.99	8.96

SIC 29 PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHYSICAL SCIENTISTS	350	1.19	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	300	1.02	21.53	41.79
ALL OTHER PHYSICAL SCIENTISTS	50	0.17	25.49	14.93
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	750	2.53	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	710	2.41	14.09	31.34
PETROLEUM TECHNICIANS AND TECHNOLOGISTS	20	0.06	36.53	2.99
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.06	37.17	5.97
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	170	0.56	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	70	0.23	17.96	16.42
COMPUTER PROGRAMMERS	80	0.27	21.34	26.87
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.06	38.87	2.99
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	70	0.23	13.25	20.90
SALES AND RELATED OCCUPATIONS	250	0.84	N.A.	N.A.
SALES ENGINEERS	20	0.06	25.18	7.46
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	150	0.51	19.13	28.36
ALL OTHER SALES AND RELATED WORKERS	80	0.27	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,400	8.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	230	0.78	22.40	47.76
ADJUSTMENT CLERKS	20	0.06	29.25	5.97
SECRETARIES	420	1.42	8.77	65.67
STENOGRAPHERS	40	0.13	27.39	7.46
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.06	33.39	8.96
TYPISTS-WORD PROCESSING EQUIPMENT	40	0.13	33.98	10.45
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	50	0.17	15.01	25.37
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	60	0.20	38.35	23.88
PROCUREMENT CLERKS	20	0.06	44.40	14.93
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	310	1.05	15.79	58.21
PAYROLL AND TIMEKEEPING CLERKS	110	0.37	28.19	28.36
BILLING, COST AND RATE CLERKS	40	0.13	25.72	14.93
GENERAL OFFICE CLERKS	370	1.25	13.19	50.75
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	70	0.22	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.10	26.40	13.43
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.06	21.13	11.94
ALL OTHER OFFICE MACHINE OPERATORS	20	0.06	24.98	7.46

SIC 29 PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SWITCHBOARD OPERATORS	50	0.17	21.26	25.37
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	480	1.61	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	60	0.20	25.23	14.93
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	150	0.51	17.78	26.87
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	180	0.61	15.35	32.84
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	70	0.23	19.34	20.90
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.06	28.03	5.97
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.23	N.A.	N.A.
SERVICE OCCUPATIONS	280	0.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	40	0.13	32.49	11.94
GUARDS AND WATCH GUARDS	200	0.68	18.92	19.40
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.06	15.27	17.91
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	20,520	69.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	2,590	8.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	450	1.53	16.71	40.30
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	410	1.39	33.59	16.42
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,490	5.07	8.65	80.60
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	60	0.20	15.16	22.39
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	0.23	32.62	19.40
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	110	0.37	37.50	7.46
PRECISION INSPECTORS, TESTERS, AND GRADERS	190	0.64	19.31	14.93
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	400	1.36	20.00	34.33
MECHANICS, INSTALLERS, AND REPAIRERS	1,820	6.17	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	620	2.11	17.12	38.81
MAINTENANCE REPAIRERS-GENERAL UTILITY	390	1.32	37.20	40.30
AUTOMOTIVE MECHANICS	50	0.17	19.08	10.45
PRECISION INSTRUMENT REPAIRERS	470	1.59	14.01	22.39
MECHANICAL CONTROL AND VALVE INSTALLERS AND REPAIRERS	90	0.30	37.21	4.48

SIC 29 PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
RIGGERS	100	0.34	15.91	7.46
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	100	0.34	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,720	5.84	N.A.	N.A.
CARPENTERS	200	0.68	14.01	17.91
ELECTRICIANS	550	1.87	9.79	34.33
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	0.20	18.42	13.43
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	750	2.55	8.51	22.39
INSULATION OCCUPATIONS	80	0.27	13.69	13.43
ALL OTHER CONSTRUCTION TRADES WORKERS	80	0.27	33.43	7.46
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	20	0.06	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	1,200	4.07	N.A.	N.A.
MACHINISTS	830	2.82	8.26	22.39
BOILERMAKERS	310	1.05	22.88	13.43
ALL OTHER PRECISION METAL WORKERS	60	0.20	21.75	5.97
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	4,760	16.15	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	180	0.61	16.17	14.93
BOILER OPERATORS AND TENDERS-LOW PRESSURE	210	0.71	21.85	17.91
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	2,460	8.37	27.36	23.88
CHEMICAL EQUIPMENT TENDERS	150	0.51	35.14	7.46
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	20	0.06	28.83	7.46
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.06	27.27	8.96
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	620	2.11	34.97	4.48
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	750	2.55	21.35	44.78
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	290	0.98	16.12	28.36
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	40	0.13	40.25	2.99
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.06	36.99	4.48
OTHER HANDWORKING OCCUPATIONS	280	0.94	N.A.	N.A.
WELDERS AND CUTTERS	240	0.81	13.41	11.94
ALL OTHER HAND WORKERS	40	0.13	48.91	1.49
PLANT AND SYSTEM OCCUPATIONS	4,240	14.40	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	110	0.37	27.74	11.94
CHEMICAL PLANT AND SYSTEM OPERATORS	100	0.34	43.57	10.45
PETROLEUM PUMP SYSTEM OPERATORS	370	1.25	23.66	17.91
PETROLEUM REFINERY AND CONTROL PANEL OPERATORS	2,790	9.49	21.34	28.36

SIC 29 PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GAUGERS	580	1.97	16.65	23.88
POWER DISTRIBUTORS AND DISPATCHERS	180	0.61	47.87	5.97
STATIONARY ENGINEERS	110	0.37	32.99	4.48
MOTOR VEHICLE OPERATORS	400	1.36	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	50	0.17	25.88	13.43
ALL OTHER MOTOR VEHICLE OPERATORS	350	1.19	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	50	0.17	29.46	5.97
MATERIAL MOVING EQUIPMENT OPERATORS	650	2.18	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	190	0.64	29.29	22.39
OIL PUMPERS-EXCEPT WELL HEAD	70	0.23	35.72	2.99
CRANE AND TOWER OPERATORS	40	0.13	31.31	8.96
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	230	0.78	10.52	32.84
CONVEYOR OPERATORS AND TENDERS	20	0.06	37.19	5.97
PUMP OPERATORS	50	0.17	42.80	4.48
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	50	0.17	31.07	5.97
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,590	5.39	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	340	1.15	38.44	10.45
MACHINE FEEDERS AND OFFBEARERS	130	0.44	25.84	11.94
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	320	1.08	18.36	26.87
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	800	2.72	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	610	2.07	N.A.	N.A.

SIC 291 PETROLEUM REFINING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	26,070	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	930	3.51	N.A.	N.A.
FINANCIAL MANAGERS	50	0.19	30.57	46.15
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	70	0.26	17.09	84.62
PURCHASING MANAGERS	20	0.07	20.40	30.77
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.15	24.52	30.77
ADMINISTRATIVE SERVICES MANAGERS	30	0.11	34.73	38.46
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	100	0.38	18.67	65.38
INDUSTRIAL PRODUCTION MANAGERS	170	0.65	34.29	80.77
MINING, QUARRYING, AND OIL AND GAS WELL DRILLING MANAGERS	10	0.03	46.89	7.69
GENERAL MANAGERS AND TOP EXECUTIVES	300	1.14	43.39	88.46
ALL OTHER MANAGERS AND ADMINISTRATORS	140	0.53	17.69	65.38
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	4,500	17.09	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	280	1.07	N.A.	N.A.
BUDGET ANALYSTS	50	0.19	23.66	30.77
ALL OTHER FINANCIAL SPECIALISTS	230	0.88	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	120	0.45	23.69	65.38
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	170	0.65	22.75	65.38
COST ESTIMATORS	20	0.07	27.74	23.08
ALL OTHER MANAGEMENT SUPPORT WORKERS	160	0.61	22.13	53.85
ENGINEERS	1,810	6.88	N.A.	N.A.
PETROLEUM ENGINEERS	190	0.72	28.25	23.08
CHEMICAL ENGINEERS	580	2.22	9.07	80.77
CIVIL ENGINEERS-INCLUDING TRAFFIC	170	0.65	23.05	38.46
ELECTRICAL AND ELECTRONIC ENGINEERS	250	0.95	23.40	38.46
COMPUTER ENGINEERS	150	0.57	49.60	26.92
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	140	0.53	49.38	23.08
SAFETY ENGINEERS-EXCEPT MINING	90	0.34	16.48	69.23
MECHANICAL ENGINEERS	180	0.68	10.04	65.38
ALL OTHER ENGINEERS	60	0.22	21.62	34.62
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	620	2.35	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	210	0.80	31.53	26.92
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	160	0.61	35.43	7.69
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	60	0.22	30.33	19.23
DRAFTERS	140	0.53	9.48	53.85
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	50	0.19	37.58	19.23

SIC 291 PETROLEUM REFINING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHYSICAL SCIENTISTS	330	1.26	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	280	1.07	23.37	76.92
ALL OTHER PHYSICAL SCIENTISTS	50	0.19	25.99	34.62
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	730	2.78	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	690	2.64	14.35	65.38
PETROLEUM TECHNICIANS AND TECHNOLOGISTS	20	0.07	36.53	7.69
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.07	37.17	15.38
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	140	0.52	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	70	0.26	17.96	42.31
COMPUTER PROGRAMMERS	70	0.26	24.04	46.15
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	70	0.26	13.43	50.00
SALES AND RELATED OCCUPATIONS	60	0.22	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	60	0.22	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,910	7.20	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	0.68	27.19	61.54
SECRETARIES	330	1.26	10.85	92.31
STENOGRAPHERS	30	0.11	30.93	15.38
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.03	43.17	11.54
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.15	17.21	42.31
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	260	0.99	18.86	76.92
PAYROLL AND TIMEKEEPING CLERKS	100	0.38	30.76	50.00
BILLING, COST AND RATE CLERKS	20	0.07	38.98	11.54
GENERAL OFFICE CLERKS	310	1.18	15.68	61.54
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	50	0.17	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.07	32.17	23.08
DATA ENTRY KEYERS-EXCEPT COMPOSING	10	0.03	25.29	23.08
ALL OTHER OFFICE MACHINE OPERATORS	20	0.07	28.34	15.38
SWITCHBOARD OPERATORS	40	0.15	24.21	50.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	410	1.54	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	50	0.19	27.15	26.92
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	130	0.49	19.68	53.85
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	160	0.61	17.18	53.85
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	0.22	23.80	30.77
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.03	39.22	11.54

SIC 291 PETROLEUM REFINING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	130	0.49	N.A.	N.A.
SERVICE OCCUPATIONS	260	0.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	40	0.15	32.49	30.77
GUARDS AND WATCH GUARDS	190	0.72	20.13	38.46
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	18,410	70.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	2,410	9.22	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	440	1.68	17.28	69.23
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	410	1.57	33.59	42.31
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,350	5.17	9.55	88.46
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	50	0.19	17.52	34.62
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	50	0.19	42.23	26.92
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	110	0.42	38.84	15.38
PRECISION INSPECTORS, TESTERS, AND GRADERS	180	0.68	19.69	34.62
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	350	1.34	22.62	50.00
MECHANICS, INSTALLERS, AND REPAIRERS	1,620	6.17	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	540	2.06	19.40	61.54
MAINTENANCE REPAIRERS-GENERAL UTILITY	300	1.14	49.35	30.77
AUTOMOTIVE MECHANICS	50	0.19	19.40	23.08
PRECISION INSTRUMENT REPAIRERS	460	1.76	14.10	53.85
MECHANICAL CONTROL AND VALVE INSTALLERS AND REPAIRERS	90	0.34	37.21	11.54
RIGGERS	100	0.38	15.91	19.23
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	80	0.30	47.63	7.69
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,640	6.25	N.A.	N.A.
CARPENTERS	200	0.76	14.01	46.15
ELECTRICIANS	520	1.99	10.29	57.69
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	0.22	18.42	34.62
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	750	2.87	8.56	53.85
INSULATION OCCUPATIONS	80	0.30	13.69	34.62
ALL OTHER CONSTRUCTION TRADES WORKERS	30	0.11	24.49	11.54

SIC 291 PETROLEUM REFINING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION PRODUCTION OCCUPATIONS	1,200	4.58	N.A.	N.A.
MACHINISTS	830	3.18	8.29	50.00
BOILERMAKERS	310	1.18	22.88	34.62
ALL OTHER PRECISION METAL WORKERS	60	0.22	21.75	15.38
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	4,070	15.55	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	80	0.30	27.72	15.38
BOILER OPERATORS AND TENDERS-LOW PRESSURE	200	0.76	23.65	30.77
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	2,460	9.42	27.46	53.85
CHEMICAL EQUIPMENT TENDERS	130	0.49	39.17	11.54
SEPARATING, FILTERING, CLARIFYING, PRECIPITATING, AND STILL MACHINE OPERATORS AND TENDERS	620	2.37	34.97	11.54
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	520	1.99	30.25	26.92
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	60	0.22	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	240	0.91	N.A.	N.A.
WELDERS AND CUTTERS	240	0.91	13.41	30.77
PLANT AND SYSTEM OCCUPATIONS	4,170	15.95	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	100	0.38	31.14	26.92
CHEMICAL PLANT AND SYSTEM OPERATORS	90	0.34	47.66	19.23
PETROLEUM PUMP SYSTEM OPERATORS	370	1.41	23.84	42.31
PETROLEUM REFINERY AND CONTROL PANEL OPERATORS	2,740	10.50	21.66	69.23
GAUGERS	580	2.22	16.81	57.69
POWER DISTRIBUTORS AND DISPATCHERS	180	0.68	47.87	15.38
STATIONARY ENGINEERS	110	0.42	32.99	11.54
MOTOR VEHICLE OPERATORS	250	0.95	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.11	36.79	11.54
ALL OTHER MOTOR VEHICLE OPERATORS	220	0.84	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	50	0.19	29.46	15.38
MATERIAL MOVING EQUIPMENT OPERATORS	470	1.77	N.A.	N.A.
TANK CAR AND TRUCK LOADERS	180	0.68	31.90	38.46
OIL PUMPERS-EXCEPT WELL HEAD	70	0.26	35.72	7.69
CRANE AND TOWER OPERATORS	40	0.15	32.70	19.23
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	0.30	25.76	30.77
PUMP OPERATORS	50	0.19	42.80	11.54
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	50	0.19	31.65	11.54
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,170	4.47	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	340	1.30	39.12	19.23
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	230	0.88	25.21	30.77

SIC 291 PETROLEUM REFINING
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND................	600	2.29	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS..................	590	2.26	N.A.	N.A.

SIC 295 ASPHALT PAVING AND ROOFING MATERIALS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,090	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	190	9.15	N.A.	N.A.
FINANCIAL MANAGERS	20	0.96	24.65	23.08
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	1.93	32.67	23.08
INDUSTRIAL PRODUCTION MANAGERS	40	1.93	20.97	42.31
GENERAL MANAGERS AND TOP EXECUTIVES	60	2.89	9.65	84.62
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	60	2.89	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.48	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.48	18.07	30.77
ENGINEERS	10	0.48	N.A.	N.A.
ALL OTHER ENGINEERS	10	0.48	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	90	4.33	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.48	48.98	7.69
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	2.89	19.17	42.31
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	280	13.47	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30	1.44	15.64	42.31
SECRETARIES	40	1.93	17.48	42.31
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.48	45.50	7.69
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.96	19.20	30.77
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.44	14.66	46.15
GENERAL OFFICE CLERKS	50	2.41	20.19	46.15
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	40	1.92	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.48	36.69	15.38
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	10	0.48	32.59	15.38
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.96	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	* 60	2.89	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.96	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.48	21.12	23.08
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,450	69.93	N.A.	N.A.

SIC 295 ASPHALT PAVING AND ROOFING MATERIALS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	100	4.82	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.48	16.51	26.92
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	90	4.34	8.90	80.77
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	40	1.93	17.59	26.92
MECHANICS, INSTALLERS, AND REPAIRERS	140	6.75	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	50	2.41	28.34	15.38
MAINTENANCE REPAIRERS-GENERAL UTILITY	90	4.34	15.12	57.69
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.48	N.A.	N.A.
ELECTRICIANS	10	0.48	25.98	15.38
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	70	3.38	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	380	18.31	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	40	1.93	30.32	11.54
BOILER OPERATORS AND TENDERS-LOW PRESSURE	20	0.96	25.24	15.38
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	20	0.96	30.43	15.38
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	30	1.44	49.83	3.85
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.96	27.27	23.08
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	120	5.79	14.96	46.15
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	80	3.86	18.68	38.46
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	50	2.41	36.99	11.54
OTHER HANDWORKING OCCUPATIONS	40	1.93	N.A.	N.A.
ALL OTHER HAND WORKERS	40	1.93	48.91	3.85
MOTOR VEHICLE OPERATORS	110	5.31	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	100	4.83	20.44	50.00
ALL OTHER MOTOR VEHICLE OPERATORS	10	0.48	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	140	6.75	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	120	5.79	9.62	46.15
CONVEYOR OPERATORS AND TENDERS	20	0.96	42.95	11.54
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	330	15.93	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	120	5.79	26.90	26.92
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	1.93	26.80	26.92

SIC 295 ASPHALT PAVING AND ROOFING MATERIALS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND................	170	8.21	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS..................	90	4.34	N.A.	N.A.

SIC 299 MISC. PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,200	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	100	8.24	N.A.	N.A.
FINANCIAL MANAGERS	10	0.82	15.42	33.33
INDUSTRIAL PRODUCTION MANAGERS	20	1.65	20.10	60.00
GENERAL MANAGERS AND TOP EXECUTIVES	40	3.30	17.43	80.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	100	8.25	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	1.65	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	1.65	13.93	53.33
PHYSICAL SCIENTISTS	20	1.65	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	20	1.65	17.87	33.33
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	4.95	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	100	8.25	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	70	5.78	16.29	33.33
ALL OTHER SALES AND RELATED WORKERS	30	2.47	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	170	14.02	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.82	27.57	33.33
SECRETARIES	50	4.13	6.27	60.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	1.65	16.19	46.67
GENERAL OFFICE CLERKS	20	1.65	29.03	40.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	10	0.82	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.82	35.46	26.67
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	4.95	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.82	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	720	59.41	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	60	4.95	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	50	4.13	7.83	66.67
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	10	0.82	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.82	27.78	20.00

SIC 299 MISC. PETROLEUM AND COAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	30	2.47	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	2.47	15.02	40.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	1.65	N.A.	N.A.
ELECTRICIANS	20	1.65	31.08	26.67
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	320	26.43	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	60	4.95	22.36	20.00
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	110	9.09	13.23	73.33
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	150	12.39	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	50	4.12	N.A.	N.A.
WATER AND LIQUID WASTE TREATMENT PLANT AND SYSTEM OPERATORS	10	0.82	31.83	6.67
PETROLEUM REFINERY AND CONTROL PANEL OPERATORS	40	3.30	31.96	6.67
MOTOR VEHICLE OPERATORS	40	3.29	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	30	2.47	18.75	40.00
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.82	41.64	26.67
MATERIAL MOVING EQUIPMENT OPERATORS	40	3.30	N.A.	N.A.
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	40	3.30	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	110	9.08	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	50	4.13	13.34	20.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	4.95	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 30 - RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing products, not elsewhere classified, from plastics resins and from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak.

SIC 301 - TIRES AND INNER TUBES

Establishments that are primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; camelback; and tire repair and retreading materials are in this industry.

SIC 305 - GASKETS, PACKING, AND SEALING DEVICES AND RUBBER AND PLASTICS HOSE AND BELTING

This industry group includes establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose; and gaskets, gasketing materials, compression packings, mold packings, oil seals, and mechanical seals. Also included are establishments that manufacture gaskets, packing, and sealing devices made of leather, rubber, metal, asbestos, and plastics.

SIC 306 - FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

This industry group includes establishments primarily engaged in manufacturing molded, extruded, and lathe-cut mechanical rubber goods; and industrial rubber goods, rubberized fabrics, and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries, not elsewhere classified.

SIC 308 - MISCELLANEOUS PLASTICS PRODUCTS

Establishments that are primarily engaged in manufacturing unsupported plastics film and sheet; unsupported plastics profile shapes; laminated plastics plate, sheet, and profile shapes; plastics pipe; plastics bottles; plastics foam products; custom compounding of purchased plastics resins; plastics plumbing fixtures; and plastics products, not elsewhere classified, are in this industry.

SIC 30 RUBBER AND MISC. PLASTICS PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	41,490	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,330	5.57	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	120	0.28	31.21	33.64
PURCHASING MANAGERS	70	0.16	46.25	24.30
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	170	0.40	26.53	27.10
ALL OTHER ADMINISTRATIVE MANAGERS	450	1.08	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	580	1.39	16.33	58.88
GENERAL MANAGERS AND TOP EXECUTIVES	830	2.00	21.20	79.44
ALL OTHER MANAGERS AND ADMINISTRATORS	110	0.26	47.56	13.08
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,470	3.45	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	170	0.40	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	150	0.36	36.97	28.04
ALL OTHER FINANCIAL SPECIALISTS	20	0.04	37.97	8.41
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	250	0.60	26.15	41.12
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	70	0.16	41.42	18.69
ALL OTHER MANAGEMENT SUPPORT WORKERS	60	0.14	N.A.	N.A.
ENGINEERS	350	0.84	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	100	0.24	23.60	17.76
ALL OTHER ENGINEERS	250	0.60	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	170	0.39	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.04	14.44	4.67
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.04	29.38	4.67
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	130	0.31	N.A.	N.A.
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	20	0.04	N.A.	N.A.
PHYSICAL SCIENTISTS	40	0.09	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	40	0.09	45.77	14.02
LIFE SCIENTISTS	20	0.04	0.00	0.93
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	190	0.44	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	170	0.40	45.45	13.08
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.04	9.88	1.87
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	110	0.26	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	50	0.12	9.70	12.15
COMPUTER PROGRAMMER AIDES	10	0.02	25.19	3.74
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	50	0.12	N.A.	N.A.

SIC 30 RUBBER AND MISC. PLASTICS PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SALES AND RELATED OCCUPATIONS	1,220	2.93	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	840	2.02	36.28	41.12
ALL OTHER SALES AND RELATED WORKERS	380	0.91	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	4,250	10.17	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	200	0.48	49.69	32.71
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	180	0.43	N.A.	N.A.
SECRETARIES	670	1.61	20.01	57.94
RECEPTIONISTS AND INFORMATION CLERKS	90	0.21	48.64	25.23
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.02	26.04	3.74
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	60	0.14	33.86	22.43
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	330	0.79	35.63	26.17
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	310	0.74	30.33	44.86
BILLING, COST AND RATE CLERKS	80	0.19	49.85	19.63
GENERAL OFFICE CLERKS	380	0.91	27.61	38.32
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	120	0.28	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	60	0.14	47.38	14.95
ALL OTHER OFFICE MACHINE OPERATORS	60	0.14	N.A.	N.A.
SWITCHBOARD OPERATORS	60	0.14	47.23	21.50
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,550	3.73	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	420	1.01	35.23	34.58
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	50	0.12	19.57	6.54
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	270	0.65	36.22	34.58
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	810	1.95	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	210	0.50	N.A.	N.A.
SERVICE OCCUPATIONS	430	1.01	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.04	42.01	4.67
GUARDS AND WATCH GUARDS	70	0.16	25.60	13.08
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	330	0.79	21.02	38.32
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	31,790	76.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	2,240	5.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	130	0.31	31.36	31.78

SIC 30 RUBBER AND MISC. PLASTICS PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,780	4.28	14.54	78.50
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	70	0.16	47.09	19.63
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	100	0.24	38.71	16.82
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	160	0.38	15.36	9.35
PRECISION INSPECTORS, TESTERS, AND GRADERS	550	1.32	29.72	14.95
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,070	2.57	29.99	41.12
MECHANICS, INSTALLERS, AND REPAIRERS	1,970	4.73	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,080	2.60	36.83	34.58
MAINTENANCE REPAIRERS-GENERAL UTILITY	560	1.34	31.32	42.06
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	330	0.79	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	270	0.63	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	40	0.09	N.A.	N.A.
ELECTRICIANS	140	0.33	36.55	13.08
ALL OTHER PLUMBING AND RELATED WORKERS	90	0.21	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	40	0.09	62.97	1.87
PRECISION PRODUCTION OCCUPATIONS	680	1.62	N.A.	N.A.
TOOL AND DIE MAKERS	240	0.57	31.47	21.50
MACHINISTS	370	0.89	22.46	34.58
SHEET METAL OCCUPATIONS	10	0.02	24.06	3.74
ALL OTHER PRECISION WORKERS	60	0.14	N.A.	N.A.
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	0.45	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	0.12	46.20	4.67
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	90	0.21	47.30	3.74
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	0.12	43.24	3.74
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.04	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.04	39.04	5.61
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	4,980	11.99	N.A.	N.A.

SIC 30 RUBBER AND MISC. PLASTICS PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PLASTIC MOLDING AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	760	1.83	43.67	19.63
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	4,220	10.16	38.43	28.04
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	3,330	8.02	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	880	2.12	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS:	2,450	5.90	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	10	0.02	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	10	0.02	10.52	1.87
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	140	0.33	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	40	0.09	49.93	1.87
SEWING MACHINE OPERATORS-NON-GARMENT	100	0.24	40.30	2.80
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	60	0.14	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	5,900	14.18	N.A.	N.A.
TIRE BUILDING MACHINE OPERATORS	300	0.72	0.00	0.93
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	120	0.28	13.93	4.67
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	20	0.04	13.12	1.87
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	220	0.53	15.27	9.35
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	1,880	4.53	39.78	24.30
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	290	0.69	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	3,070	7.39	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	5,460	13.15	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,670	8.84	32.79	36.45
ALL OTHER HAND WORKERS	1,790	4.31	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	220	0.53	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	220	0.53	N.A.	N.A.
MOTOR VEHICLE OPERATORS	680	1.63	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	680	1.63	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	10	0.02	41.80	1.87
MATERIAL MOVING EQUIPMENT OPERATORS	1,010	2.42	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	990	2.38	33.54	30.84
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	20	0.04	N.A.	N.A.

SIC 30 RUBBER AND MISC. PLASTICS PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,960	7.12	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	160	0.38	30.64	6.54
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,800	6.74	N.A.	N.A.

SIC 301 TIRES AND INNER TUBES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,310	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	160	6.91	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	10	0.43	N.A.	N.A.
ALL OTHER SUPPORT SERVICES MANAGERS	90	3.89	N.A.	N.A.
GENERAL MANAGERS AND TOP EXECUTIVES	60	2.59	10.64	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	70	3.02	N.A.	N.A.
ENGINEERS	20	0.86	N.A.	N.A.
ALL OTHER ENGINEERS	20	0.86	0.00	20.00
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	10	0.43	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	10	0.43	0.00	20.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	80	3.45	N.A.	N.A.
GENERAL OFFICE CLERKS	10	0.43	44.07	60.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	30	1.29	N.A.	N.A.
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.86	0.00	20.00
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.43	N.A.	N.A.
SERVICE OCCUPATIONS	70	3.02	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.86	47.48	60.00
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	50	2.16	2.29	80.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,930	83.45	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	70	3.02	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.86	15.01	0.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	50	2.16	6.10	80.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	390	16.88	35.87	60.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	20	0.86	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	160	6.90	N.A.	N.A.
MILLWRIGHTS	50	2.16	0.00	20.00
MACHINERY MAINTENANCE WORKERS	20	0.86	0.00	20.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	1.29	32.83	80.00
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	60	2.59	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	70	3.02	N.A.	N.A.

SIC 301 TIRES AND INNER TUBES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	50	2.16	0.00	20.00
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.86	0.00	20.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,000	43.27	N.A.	N.A.
TIRE BUILDING MACHINE OPERATORS	300	12.98	0.00	20.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	150	6.49	0.00	20.00
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	60	2.59	0.00	20.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	490	21.21	0.00	20.00
MOTOR VEHICLE OPERATORS	130	5.62	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	130	5.62	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	30	1.29	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	1.29	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	2.59	N.A.	N.A.

SIC 305 HOSE & BELTING & GASKETS & PACKING
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,290	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	230	6.97	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.60	38.67	13.64
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.91	25.21	13.64
INDUSTRIAL PRODUCTION MANAGERS	40	1.21	15.97	54.55
GENERAL MANAGERS AND TOP EXECUTIVES	90	2.74	12.96	90.91
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.60	27.92	13.64
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	130	3.90	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.30	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.30	28.14	22.73
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.60	29.78	27.27
ENGINEERS	40	1.20	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.60	24.86	18.18
ALL OTHER ENGINEERS	20	0.60	46.90	4.55
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.60	N.A.	N.A.
DRAFTERS	20	0.60	32.16	18.18
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.60	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.60	46.90	4.55
SALES AND RELATED OCCUPATIONS	230	6.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.60	39.90	13.64
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	50	1.52	45.91	9.09
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	120	3.65	21.60	45.45
ALL OTHER SALES AND RELATED WORKERS	40	1.21	41.46	13.64
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	430	13.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.60	31.38	31.82
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	10	0.30	N.A.	N.A.
SECRETARIES	60	1.82	22.28	54.55
RECEPTIONISTS AND INFORMATION CLERKS	10	0.30	28.89	31.82
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.30	43.65	13.64
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.30	23.87	18.18
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.91	32.26	22.73

SIC 305 HOSE & BELTING & GASKETS & PACKING
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.52	19.56	50.00
GENERAL OFFICE CLERKS	50	1.52	27.13	31.82
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	150	4.56	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.91	29.25	18.18
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	1.52	23.49	36.36
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	70	2.13	15.04	59.09
SERVICE OCCUPATIONS	20	0.60	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.60	30.89	22.73
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,250	68.45	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	130	3.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	130	3.96	11.10	72.73
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	1.82	20.52	31.82
MECHANICS, INSTALLERS, AND REPAIRERS	80	2.41	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	1.21	20.72	22.73
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.60	25.30	22.73
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.60	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	150	4.56	N.A.	N.A.
TOOL AND DIE MAKERS	40	1.21	34.39	27.27
MACHINISTS	110	3.35	22.35	50.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	110	3.33	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	1.21	37.68	18.18
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.91	49.26	9.09
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	40	1.21	44.21	18.18
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	40	1.21	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	40	1.21	49.93	9.09
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	10	0.30	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.60	N.A.	N.A.
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	20	0.60	47.57	13.64
OTHER HANDWORKING OCCUPATIONS	840	25.59	N.A.	N.A.

SIC 305 HOSE & BELTING & GASKETS & PACKING
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTERS AND TRIMMERS-HAND	40	1.21	44.85	13.64
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	330	10.06	24.61	36.36
ALL OTHER HAND WORKERS	470	14.32	43.42	13.64
MOTOR VEHICLE OPERATORS	20	0.60	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.60	44.53	9.09
MATERIAL MOVING EQUIPMENT OPERATORS	50	1.52	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	50	1.52	31.89	18.18
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	170	5.18	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	170	5.18	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	570	17.37	N.A.	N.A.

SIC 306 FABRICATED RUBBER PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,560	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	270	7.47	N.A.	N.A.
FINANCIAL MANAGERS	20	0.55	15.20	37.50
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.55	14.24	29.17
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.83	37.60	37.50
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.83	14.27	29.17
INDUSTRIAL PRODUCTION MANAGERS	60	1.66	16.83	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	70	1.94	15.83	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	290	7.98	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	30	0.83	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	30	0.83	8.63	16.67
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.55	17.31	25.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.27	16.87	16.67
ENGINEERS	50	1.38	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	30	0.83	7.65	16.67
MECHANICAL ENGINEERS	20	0.55	21.66	29.17
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.27	N.A.	N.A.
DRAFTERS	10	0.27	27.49	20.83
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	20	0.55	N.A.	N.A.
PHYSICAL SCIENTISTS	20	0.55	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	20	0.55	19.17	33.33
LIFE SCIENTISTS	20	0.55	0.00	4.17
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	50	1.38	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	30	0.83	12.93	20.83
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.55	0.00	4.17
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	30	0.82	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.55	5.97	16.67
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	10	0.27	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	130	3.60	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.55	16.75	25.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	90	2.50	24.91	45.83
ALL OTHER SALES AND RELATED WORKERS	20	0.55	14.21	8.33

SIC 306   FABRICATED RUBBER PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	470	12.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.55	11.43	29.17
ADJUSTMENT CLERKS	30	0.83	15.59	29.17
SECRETARIES	100	2.77	14.22	54.17
RECEPTIONISTS AND INFORMATION CLERKS	10	0.27	32.35	29.17
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.55	34.30	20.83
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	60	1.66	18.34	45.83
BILLING, COST AND RATE CLERKS	20	0.55	30.14	29.17
GENERAL OFFICE CLERKS	60	1.66	38.05	37.50
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.27	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	10	0.27	23.54	16.67
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	90	2.49	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.83	43.96	20.83
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.55	35.66	25.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.11	18.97	45.83
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.38	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.55	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.55	32.79	33.33
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,380	65.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	150	4.15	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.27	13.59	20.83
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	110	3.05	12.17	70.83
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	30	0.83	33.21	16.67
PRECISION INSPECTORS, TESTERS, AND GRADERS	20	0.55	23.30	16.67
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	1.66	41.57	29.17
MECHANICS, INSTALLERS, AND REPAIRERS	90	2.48	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	20	0.55	7.83	8.33
MACHINERY MAINTENANCE WORKERS	20	0.55	18.84	12.50
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	1.38	11.07	41.67
PRECISION PRODUCTION OCCUPATIONS	70	1.93	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.55	27.57	16.67

SIC 306 FABRICATED RUBBER PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINISTS	50	1.38	15.71	33.33
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	50	1.38	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	20	0.55	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	30	0.83	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	40	1.11	N.A.	N.A.
PRINTING PRESS MACHINE OPERATORS AND TENDERS	40	1.11	38.31	8.33
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	100	2.77	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	920	25.51	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	10	0.27	34.26	12.50
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	30	0.83	35.92	16.67
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	30	0.83	40.96	8.33
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	20	0.55	13.12	8.33
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	50	1.38	33.05	25.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	70	1.94	46.66	37.50
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	660	18.33	13.70	62.50
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	50	1.38	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	580	16.11	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	130	3.61	17.06	50.00
ALL OTHER HAND WORKERS	450	12.50	N.A.	N.A.
MOTOR VEHICLE OPERATORS	10	0.27	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	10	0.27	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	40	1.11	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	1.11	0.00	4.17
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	120	3.32	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	70	1.94	39.36	12.50
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	10	0.27	44.86	16.67
HAND PACKERS AND PACKAGERS	40	1.11	48.92	16.67
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	130	3.61	N.A.	N.A.

SIC 308 MISCELLANEOUS PLASTICS PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	32,310	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,660	5.10	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	80	0.24	43.02	41.07
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	110	0.34	42.03	32.14
ALL OTHER ADMINISTRATIVE MANAGERS	410	1.26	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	380	1.17	24.43	66.07
GENERAL MANAGERS AND TOP EXECUTIVES	610	1.88	28.85	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	970	2.96	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	110	0.34	N.A.	N.A.
ALL OTHER FINANCIAL SPECIALISTS	110	0.34	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	200	0.61	31.67	53.57
ALL OTHER MANAGEMENT SUPPORT WORKERS	80	0.24	N.A.	N.A.
ENGINEERS	220	0.67	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	50	0.15	45.00	21.43
ALL OTHER ENGINEERS	170	0.52	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	130	0.40	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.06	19.26	7.14
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	110	0.34	N.A.	N.A.
PHYSICAL SCIENTISTS	20	0.06	N.A.	N.A.
ALL OTHER PHYSICAL SCIENTISTS	20	0.06	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	130	0.40	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	130	0.40	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.06	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.06	12.57	10.71
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	0.18	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	860	2.66	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	630	1.95	48.01	41.07
ALL OTHER SALES AND RELATED WORKERS	230	0.71	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,270	10.05	N.A.	N.A.
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	140	0.43	N.A.	N.A.
SECRETARIES	510	1.57	26.31	60.71
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.12	49.61	26.79

SIC 308 MISCELLANEOUS PLASTICS PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	280	0.86	41.38	32.14
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	200	0.61	46.88	42.86
GENERAL OFFICE CLERKS	270	0.83	38.72	39.29
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	0.24	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	80	0.24	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	50	0.15	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,260	3.88	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	360	1.11	41.07	48.21
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.06	36.41	7.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	190	0.58	49.39	39.29
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	690	2.13	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	440	1.36	N.A.	N.A.
SERVICE OCCUPATIONS	320	0.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.06	46.54	7.14
GUARDS AND WATCH GUARDS	50	0.15	30.98	17.86
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	240	0.74	29.08	42.86
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	25,230	77.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,870	5.76	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	90	0.27	43.87	37.50
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,490	4.61	17.29	83.93
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	70	0.21	49.18	33.93
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	90	0.27	44.17	26.79
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	130	0.40	17.21	7.14
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	930	2.87	34.26	50.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	140	0.43	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	1,650	5.09	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,010	3.12	39.48	51.79
MAINTENANCE REPAIRERS-GENERAL UTILITY	460	1.42	38.39	46.43
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	180	0.55	N.A.	N.A.

SIC 308 MISCELLANEOUS PLASTICS PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	100	0.30	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	30	0.09	N.A.	N.A.
ALL OTHER PLUMBING AND RELATED WORKERS	70	0.21	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	80	0.24	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	450	1.37	N.A.	N.A.
TOOL AND DIE MAKERS	180	0.55	40.88	23.21
MACHINISTS	200	0.61	39.16	30.36
ALL OTHER PRECISION WORKERS	70	0.21	N.A.	N.A.
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	4,920	15.22	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	720	2.22	45.80	30.36
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	4,200	13.00	38.58	50.00
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	3,150	9.74	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	830	2.56	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	2,320	7.18	N.A.	N.A.
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	50	0.15	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	3,710	11.47	N.A.	N.A.
CHEMICAL EQUIPMENT CONTROLLERS AND OPERATORS	30	0.09	7.91	3.57
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	160	0.49	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	3,520	10.89	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	4,020	12.43	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,310	10.24	36.22	46.43
ALL OTHER HAND WORKERS	710	2.19	N.A.	N.A.
MOTOR VEHICLE OPERATORS	520	1.60	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	520	1.60	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	880	2.72	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	870	2.69	38.03	46.43
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	10	0.03	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,530	7.83	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,530	7.83	N.A.	N.A.

SIC 308   MISCELLANEOUS PLASTICS PRODUCTS, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS..................	230	0.71	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 31 - LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, leather converters, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials.

SIC 319 - LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

Establishments that are primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harnesses, whips, embossed leather goods, leather desk sets, razor strops, and leather belting are in this industry.

SIC 31 LEATHER AND LEATHER PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	7,590	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	330	4.30	N.A.	N.A.
FINANCIAL MANAGERS	20	0.26	25.26	19.61
PURCHASING MANAGERS	20	0.26	15.33	17.65
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.39	48.37	15.69
INDUSTRIAL PRODUCTION MANAGERS	60	0.78	34.11	33.33
GENERAL MANAGERS AND TOP EXECUTIVES	140	1.83	22.86	82.35
ALL OTHER MANAGERS AND ADMINISTRATORS	60	0.78	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	160	2.08	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	30	0.39	N.A.	N.A.
ALL OTHER FINANCIAL SPECIALISTS	30	0.39	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.39	47.18	15.69
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.13	34.81	9.80
COST ESTIMATORS	10	0.13	44.97	9.80
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	40	0.52	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	40	0.52	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	420	5.49	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	160	2.09	30.26	25.49
ALL OTHER SALES AND RELATED WORKERS	260	3.40	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	910	11.87	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.52	37.16	27.45
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	90	1.17	N.A.	N.A.
SECRETARIES	130	1.70	32.75	54.90
RECEPTIONISTS AND INFORMATION CLERKS	10	0.13	44.55	11.76
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	1.04	24.43	37.25
PAYROLL AND TIMEKEEPING CLERKS	10	0.13	23.81	11.76
BILLING, COST AND RATE CLERKS	20	0.26	37.74	15.69
GENERAL OFFICE CLERKS	40	0.52	24.35	35.29
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	0.78	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	10	0.13	0.00	3.92
DATA ENTRY KEYERS-EXCEPT COMPOSING	50	0.65	32.96	15.69
SWITCHBOARD OPERATORS	10	0.13	37.43	11.76
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	320	4.18	N.A.	N.A.

SIC 31   LEATHER AND LEATHER PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.78	47.58	13.73
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	70	0.91	35.28	15.69
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	190	2.49	18.53	50.98
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	1.31	N.A.	N.A.
SERVICE OCCUPATIONS	120	1.56	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	20	0.26	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	1.04	25.27	35.29
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	5,650	73.94	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	290	3.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	240	3.14	12.08	52.94
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	50	0.65	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	260	3.40	18.81	33.33
MECHANICS, INSTALLERS, AND REPAIRERS	190	2.48	N.A.	N.A.
ALL OTHER MACHINERY MAINTENANCE MECHANICS	60	0.78	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	1.44	25.00	33.33
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.26	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	1,080	14.15	N.A.	N.A.
SHOE AND LEATHER OCCUPATIONS-PRECISION	1,080	14.15	45.27	45.10
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	850	11.13	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	310	4.06	31.96	23.53
SHOE SEWING MACHINE OPERATORS AND TENDERS	540	7.07	19.64	17.65
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	180	2.35	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	770	10.07	N.A.	N.A.
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	30	0.39	26.80	9.80
CEMENTING AND GLUING MACHINE OPERATORS AND TENDERS	170	2.22	46.21	17.65
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	210	2.75	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	360	4.71	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	920	12.04	N.A.	N.A.
CUTTERS AND TRIMMERS-HAND	240	3.14	28.79	27.45
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	450	5.89	44.17	25.49

SIC 31 LEATHER AND LEATHER PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HAND WORKERS	230	3.01	N.A.	N.A.
MOTOR VEHICLE OPERATORS	20	0.26	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.26	40.29	11.76
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.39	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.39	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,000	13.10	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	20	0.26	49.77	5.88
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	980	12.84	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.78	N.A.	N.A.

SIC 319 LEATHER GOODS, NEC
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,090	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	90	8.31	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	10	0.92	24.24	29.41
GENERAL MANAGERS AND TOP EXECUTIVES	50	4.62	10.06	82.35
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	10	0.92	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	140	12.95	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	2.77	33.17	5.88
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	90	8.33	11.71	41.18
ALL OTHER SALES AND RELATED WORKERS	20	1.85	0.00	5.88
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	160	14.78	N.A.	N.A.
ADJUSTMENT CLERKS	10	0.92	2.97	17.65
SECRETARIES	30	2.77	22.23	47.06
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	10	0.92	20.43	29.41
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.92	N.A.	N.A.
BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	10	0.92	0.00	11.76
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	60	5.55	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	1.85	2.10	11.76
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	3.70	11.22	58.82
SERVICE OCCUPATIONS	20	1.85	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	670	61.97	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	30	2.77	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	30	2.77	9.20	47.06
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.92	21.56	23.53
MECHANICS, INSTALLERS, AND REPAIRERS	10	0.92	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.92	10.56	23.53
PRECISION PRODUCTION OCCUPATIONS	240	22.21	N.A.	N.A.
SHOE AND LEATHER OCCUPATIONS-PRECISION	210	19.44	8.76	70.59
ALL OTHER PRECISION TEXTILE, APPAREL, AND FURNISHINGS WORKERS	30	2.77	0.00	5.88

SIC 319 LEATHER GOODS, NEC
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	80	7.40	N.A.	N.A.
SEWING MACHINE OPERATORS-GARMENT	20	1.85	25.42	17.65
SEWING MACHINE OPERATORS-NON-GARMENT	60	5.55	9.39	35.29
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	50	4.62	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	50	4.62	N.A.	N.A.
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	20	1.85	0.00	5.88
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	30	2.77	0.00	5.88
OTHER HANDWORKING OCCUPATIONS	60	5.55	N.A.	N.A.
SEWERS-HAND	20	1.85	0.00	5.88
CUTTERS AND TRIMMERS-HAND	20	1.85	23.93	23.53
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	20	1.85	25.97	23.53
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	120	11.11	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	120	11.11	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 32 - STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, and other products from materials taken principally from the earth in the form of stone, clay, and sand.

SIC 321 - FLAT GLASS

Establishments that are primarily engaged in manufacturing flat glass are in this industry.

SIC 322 - GLASS AND GLASSWARE, PRESSED OR BLOWN

This industry group includes establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning; and glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment.

SIC 323 - GLASS PRODUCTS, MADE OF PURCHASED GLASS

This industry group includes establishments primarily engaged in manufacturing glass products from purchased glass such as art glass, christmas tree ornaments, stained glass, and windshields.

SIC 324 - HYDRAULIC CEMENT

Establishments that are primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and pozzolana cements are in this industry.

SIC 325 - STRUCTURAL CLAY PRODUCTS

This industry group includes establishments primarily engaged in manufacturing brick and structural clay tile; ceramic wall and floor tile; clay firebrick and other heat resisting clay products; and clay sewer pipe and structural clay products, not elsewhere classified.

SIC 326 - POTTERY AND RELATED PRODUCTS

This industry group includes establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware fittings and bathroom accessories; vitreous china table and kitchen articles; fine earthenware (whiteware) table and kitchen articles; porcelain electrical supplies; and pottery products, not elsewhere classified.

INDUSTRY CHARACTERISTICS (CONTINUED)

SIC 327 - CONCRETE, GYPSUM, AND PLASTER PRODUCTS

Establishments that are primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate; concrete products, except block and brick; ready-mixed concrete; lime; and gypsum products are in this industry.

SIC 329 - ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

This industry group includes establishments primarily engaged in manufacturing abrasive products; asbestos products; minerals and earths, ground or otherwise treated; mineral wool; nonclay refractories; and nonmetallic mineral products, not elsewhere classified.

SIC 32 STONE,CLAY AND GLASS PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	37,400	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,230	5.92	N.A.	N.A.
FINANCIAL MANAGERS	130	0.34	13.25	29.75
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	70	0.18	14.81	19.62
PURCHASING MANAGERS	40	0.10	13.48	12.66
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	80	0.21	17.76	14.56
ADMINISTRATIVE SERVICES MANAGERS	30	0.08	31.98	5.06
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	70	0.18	22.87	11.39
INDUSTRIAL PRODUCTION MANAGERS	450	1.20	14.67	46.20
GENERAL MANAGERS AND TOP EXECUTIVES	1,260	3.37	12.97	76.58
ALL OTHER MANAGERS AND ADMINISTRATORS	100	0.26	27.08	8.86
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,120	2.93	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	180	0.48	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	180	0.48	24.05	22.15
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	60	0.16	11.45	18.35
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	60	0.16	16.48	12.03
COST ESTIMATORS	30	0.08	30.05	6.96
ALL OTHER MANAGEMENT SUPPORT WORKERS	90	0.24	N.A.	N.A.
ENGINEERS	270	0.70	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	40	0.10	12.19	5.70
CHEMICAL ENGINEERS	30	0.08	41.96	3.80
CIVIL ENGINEERS-INCLUDING TRAFFIC	40	0.10	25.71	6.33
ELECTRICAL AND ELECTRONIC ENGINEERS	40	0.10	23.08	7.59
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	60	0.16	10.85	9.49
MECHANICAL ENGINEERS	60	0.16	14.61	10.13
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	210	0.55	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.08	8.85	5.06
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.02	11.66	3.16
DRAFTERS	110	0.29	29.95	12.03
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	0.16	35.04	3.80
PHYSICAL SCIENTISTS	40	0.10	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	40	0.10	24.98	6.96
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	50	0.13	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	50	0.13	27.99	5.06
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	70	0.18	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	30	0.08	25.60	3.80

SIC 32 STONE,CLAY AND GLASS PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
COMPUTER PROGRAMMERS	30	0.08	13.95	7.59
COMPUTER PROGRAMMER AIDES	10	0.02	33.43	3.80
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.02	6.73	4.43
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	0.13	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,220	3.24	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	180	0.48	14.00	15.19
SALES ENGINEERS	80	0.21	11.65	3.80
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	160	0.42	40.86	10.13
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	670	1.79	14.70	36.08
ALL OTHER SALES AND RELATED WORKERS	130	0.34	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,180	8.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	170	0.45	14.54	19.62
ADJUSTMENT CLERKS	60	0.16	26.44	7.59
SECRETARIES	620	1.65	12.96	48.73
RECEPTIONISTS AND INFORMATION CLERKS	50	0.13	24.51	13.29
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.05	14.81	3.16
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.05	22.64	7.59
FILE CLERKS	20	0.05	46.71	2.53
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	90	0.24	16.06	10.13
PROCUREMENT CLERKS	20	0.05	25.24	6.96
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	420	1.12	15.37	44.30
PAYROLL AND TIMEKEEPING CLERKS	90	0.24	13.97	23.42
BILLING, COST AND RATE CLERKS	60	0.16	17.37	10.13
GENERAL OFFICE CLERKS	420	1.12	18.76	39.87
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	0.21	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	50	0.13	39.29	8.86
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.08	10.83	5.06
SWITCHBOARD OPERATORS	60	0.16	18.34	14.56
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	920	2.44	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	330	0.88	19.68	23.42
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	100	0.26	10.70	13.92
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	50	0.13	38.05	5.70
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	180	0.48	9.75	19.62

SIC 32 STONE,CLAY AND GLASS PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	260	0.69	23.77	23.42
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	0.16	N.A.	N.A.
SERVICE OCCUPATIONS	410	1.08	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	40	0.10	30.05	5.70
GUARDS AND WATCH GUARDS	90	0.24	18.76	10.13
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	240	0.64	17.43	20.25
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	40	0.10	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	29,130	77.65	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,860	4.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	170	0.45	12.39	22.15
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,260	3.37	9.97	60.13
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	180	0.48	14.27	20.89
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	130	0.34	26.40	13.29
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	120	0.32	N.A.	N.A.
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	0.10	29.54	5.06
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	810	2.16	13.31	29.75
MECHANICS, INSTALLERS, AND REPAIRERS	2,560	6.80	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	990	2.64	12.62	31.01
REFRACTORY MATERIALS REPAIRERS-EXCEPT BRICK MASONS	20	0.05	30.08	4.43
MACHINERY MAINTENANCE WORKERS	170	0.45	14.61	13.29
MAINTENANCE REPAIRERS-GENERAL UTILITY	690	1.84	12.47	34.81
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	330	0.88	21.11	14.56
MOBILE HEAVY EQUIPMENT MECHANICS-EXCEPT ENGINES	70	0.18	36.08	5.70
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	130	0.34	N.A.	N.A.
PRECISION INSTRUMENT REPAIRERS	100	0.26	19.10	4.43
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	60	0.16	58.91	1.27
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,020	2.71	N.A.	N.A.
CARPENTERS	180	0.48	49.45	6.33

SIC 32 STONE,CLAY AND GLASS PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	160	0.42	20.73	17.09
CONCRETE AND TERRAZZO FINISHERS	550	1.47	33.88	3.80
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	60	0.16	32.76	6.96
ALL OTHER SELECTED ROAD, RAIL, AND RELATED CONSTRUCTION AND MAINTENANCE WORKERS-EXCEPT MASONRY WORKERS	70	0.18	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	140	0.37	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	820	2.18	N.A.	N.A.
MACHINISTS	80	0.21	26.65	10.13
ALL OTHER PRECISION METAL WORKERS	70	0.18	N.A.	N.A.
PRECISION MOLDERS, SHAPERS, CASTERS, AND CARVERS-EXCEPT JEWELRY AND FOUNDRY	610	1.63	22.54	12.03
PRECISION PATTERNMAKERS, MODEL MAKERS, LAYOUT OCCUPATIONS, AND CUTTERS	60	0.16	10.95	3.16
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	80	0.20	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.10	24.81	2.53
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	40	0.10	35.74	1.90
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	70	0.18	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	70	0.18	47.55	3.16
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	340	0.90	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	210	0.56	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	130	0.34	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	930	2.48	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	440	1.17	26.48	0.63
EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS-SYNTHETIC AND GLASS FIBERS	490	1.31	23.59	2.53
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	5,450	14.54	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	1,070	2.86	19.89	29.75
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	140	0.37	10.33	5.70
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	110	0.29	26.00	5.06
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	110	0.29	25.30	8.86
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	30	0.08	18.72	3.16

SIC 32   STONE,CLAY AND GLASS PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	1,120	2.99	18.42	34.81
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	720	1.92	25.08	13.92
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	680	1.82	25.26	8.23
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	980	2.62	12.78	15.19
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	300	0.80	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	190	0.50	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	2,550	6.79	N.A.	N.A.
GLAZIERS-MANUFACTURING	80	0.21	21.09	5.06
WELDERS AND CUTTERS	400	1.07	24.05	14.56
SOLDERERS AND BRAZERS	50	0.13	16.65	1.90
CUTTERS AND TRIMMERS-HAND	140	0.37	24.16	9.49
MOLDERS AND CASTERS-HAND	700	1.87	29.02	9.49
PAINTING, COATING, AND DECORATING WORKERS-HAND	80	0.21	16.81	5.70
GRINDING AND POLISHING WORKERS-HAND	390	1.04	23.81	17.09
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	550	1.47	15.80	17.72
ALL OTHER HAND WORKERS	160	0.42	45.60	4.43
PLANT AND SYSTEM OCCUPATIONS	250	0.66	21.24	6.96
MOTOR VEHICLE OPERATORS	5,370	14.37	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	5,070	13.57	13.07	48.10
ALL OTHER MOTOR VEHICLE OPERATORS	300	0.80	N.A.	N.A.
ALL OTHER TRANSPORTATION AND RELATED WORKERS	30	0.08	33.05	5.06
MATERIAL MOVING EQUIPMENT OPERATORS	2,180	5.80	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	250	0.66	27.15	13.29
CRANE AND TOWER OPERATORS	160	0.42	26.90	8.86
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	1,090	2.91	14.88	28.48
CONVEYOR OPERATORS AND TENDERS	250	0.66	16.51	9.49
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	430	1.15	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,690	12.53	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	130	0.34	26.70	11.39
MACHINE FEEDERS AND OFFBEARERS	490	1.31	18.83	13.29
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	700	1.87	12.10	21.52
HAND PACKERS AND PACKAGERS	290	0.77	20.65	13.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	3,080	8.24	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	10	0.02	N.A.	N.A.

SIC 321 FLAT GLASS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,110	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	30	2.70	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	10	0.90	13.71	44.44
GENERAL MANAGERS AND TOP EXECUTIVES	10	0.90	14.93	77.78
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	60	5.40	N.A.	N.A.
ENGINEERS	20	1.80	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.90	0.00	22.22
MECHANICAL ENGINEERS	10	0.90	0.00	22.22
SALES AND RELATED OCCUPATIONS	20	1.80	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	1.80	6.76	55.56
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	100	9.00	N.A.	N.A.
GENERAL OFFICE CLERKS	10	0.90	9.35	55.56
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	4.50	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	3.60	0.00	22.22
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	10	0.90	0.00	22.22
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	900	81.02	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	90	8.10	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	5.40	2.36	55.56
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	1.80	0.00	22.22
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	10	0.90	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	1.80	0.00	22.22
MECHANICS, INSTALLERS, AND REPAIRERS	70	6.30	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	60	5.40	0.00	22.22
PRECISION INSTRUMENT REPAIRERS	10	0.90	0.00	11.11
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	140	12.60	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	60	5.40	1.39	33.33
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	20	1.80	0.00	11.11

SIC 321 FLAT GLASS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	60	5.40	1.49	33.33
OTHER HANDWORKING OCCUPATIONS	40	3.60	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	40	3.60	7.60	55.56
MATERIAL MOVING EQUIPMENT OPERATORS	130	11.70	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	100	9.00	0.00	11.11
CONVEYOR OPERATORS AND TENDERS	30	2.70	0.00	11.11
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	370	33.32	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	170	15.31	0.00	33.33
HAND PACKERS AND PACKAGERS	10	0.90	0.00	22.22
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	190	17.11	0.00	33.33

SIC 322 GLASS AND GLASSWARE, PRESSED OR BLOWN
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,320	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	80	2.36	N.A.	N.A.
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	10	0.29	4.24	33.33
INDUSTRIAL PRODUCTION MANAGERS	20	0.59	19.30	83.33
GENERAL MANAGERS AND TOP EXECUTIVES	10	0.29	22.45	66.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	120	3.52	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.29	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.29	12.75	66.67
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.29	0.00	16.67
ENGINEERS	30	0.88	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	10	0.29	0.00	16.67
ALL OTHER ENGINEERS	20	0.59	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	0.88	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.29	12.97	33.33
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.59	25.39	16.67
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.59	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.59	21.75	33.33
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	110	3.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	10	0.29	12.69	33.33
SECRETARIES	30	0.89	4.65	0.00
GENERAL OFFICE CLERKS	20	0.59	7.11	50.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.49	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.58	N.A.	N.A.
GUARDS AND WATCH GUARDS	10	0.29	14.49	33.33
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	40	1.19	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,950	87.94	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	120	3.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	10	0.29	14.68	50.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	110	3.28	9.65	66.67

SIC 322 GLASS AND GLASSWARE, PRESSED OR BLOWN
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	240	7.16	36.30	66.67
MECHANICS, INSTALLERS, AND REPAIRERS	320	9.54	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	190	5.67	15.62	50.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	1.49	12.89	50.00
PRECISION INSTRUMENT REPAIRERS	80	2.38	23.82	33.33
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	10	0.29	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	710	21.18	N.A.	N.A.
TEXTILE MACHINE SETTERS AND SET-UP OPERATORS	440	13.13	26.48	16.67
EXTRUDING AND FORMING MACHINE OPERATORS AND TENDERS-SYNTHETIC AND GLASS FIBERS	270	8.05	0.00	16.67
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,110	33.10	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	120	3.58	10.95	66.67
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	10	0.29	0.00	16.67
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	20	0.59	26.72	16.67
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	130	3.88	9.95	50.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	440	13.13	26.49	16.67
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	250	7.46	17.48	50.00
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	110	3.28	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	30	0.89	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	40	1.19	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	40	1.19	0.00	16.67
PLANT AND SYSTEM OCCUPATIONS	110	3.28	26.57	16.67
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.29	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	10	0.29	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	180	5.36	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	2.08	3.02	50.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	110	3.28	49.67	33.33
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	2.98	N.A.	N.A.

SIC 323 PRODUCTS OF PURCHASED GLASS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,590	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	90	5.68	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	1.26	25.40	30.00
GENERAL MANAGERS AND TOP EXECUTIVES	60	3.79	19.82	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	20	1.26	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	20	1.26	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.63	38.17	15.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	130	8.19	N.A.	N.A.
SECRETARIES	20	1.26	37.98	30.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.89	22.67	55.00
GENERAL OFFICE CLERKS	20	1.26	27.58	40.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.63	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	10	0.63	0.00	10.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	20	1.26	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	1.26	31.89	25.00
SERVICE OCCUPATIONS	10	0.63	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,320	83.41	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	60	3.79	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	3.79	13.87	50.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	4.43	7.30	10.00
MECHANICS, INSTALLERS, AND REPAIRERS	60	3.79	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	60	3.79	5.22	15.00
PRECISION PRODUCTION OCCUPATIONS	70	4.41	N.A.	N.A.
SHEET METAL OCCUPATIONS	20	1.26	0.00	5.00
ALL OTHER PRECISION METAL WORKERS	20	1.26	N.A.	N.A.
PRECISION MOLDERS, SHAPERS, CASTERS, AND CARVERS-EXCEPT JEWELRY AND FOUNDRY	30	1.89	46.03	20.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	160	10.09	N.A.	N.A.

SIC 323 PRODUCTS OF PURCHASED GLASS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	40	2.53	11.13	20.00
CUTTING AND SLICING MACHINE SETTERS AND SET-UP OPERATORS	20	1.26	46.87	15.00
CUTTING AND SLICING MACHINE OPERATORS AND TENDERS	30	1.89	8.06	15.00
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	30	1.89	10.48	20.00
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	20	1.26	8.99	10.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	1.26	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	390	24.65	N.A.	N.A.
GLAZIERS-MANUFACTURING	40	2.53	37.71	25.00
SOLDERERS AND BRAZERS	30	1.89	24.98	10.00
CUTTERS AND TRIMMERS-HAND	60	3.79	29.34	30.00
GRINDING AND POLISHING WORKERS-HAND	60	3.79	16.91	35.00
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	200	12.65	23.76	50.00
MOTOR VEHICLE OPERATORS	20	1.26	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	1.26	32.15	25.00
MATERIAL MOVING EQUIPMENT OPERATORS	60	3.79	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	60	3.79	15.78	15.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	380	24.04	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	70	4.43	31.72	15.00
HAND PACKERS AND PACKAGERS	60	3.79	17.96	25.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	250	15.82	5.37	15.00
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	50	3.16	N.A.	N.A.

SIC 324 CEMENT, HYDRAULIC
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,000	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	70	3.50	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	1.00	22.05	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	20	1.00	32.62	35.71
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	180	9.02	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	1.00	14.50	50.00
ALL OTHER ENGINEERS AND RELATED WORKERS	70	3.51	N.A.	N.A.
PHYSICAL SCIENTISTS	20	1.00	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	20	1.00	27.23	28.57
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	2.01	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	40	2.01	31.03	28.57
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	10	0.50	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	40	2.00	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	1.50	37.73	28.57
ALL OTHER SALES AND RELATED WORKERS	10	0.50	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	140	7.01	N.A.	N.A.
GENERAL OFFICE CLERKS	10	0.50	30.39	35.71
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	70	3.50	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	20	1.00	26.58	35.71
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	1.00	46.51	14.29
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.50	34.35	28.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	20	1.00	46.32	21.43
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	3.01	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.50	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,540	77.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	160	8.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	2.01	11.43	50.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	5.02	14.41	85.71

SIC 324 CEMENT, HYDRAULIC
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	1.00	25.23	50.00
MECHANICS, INSTALLERS, AND REPAIRERS	330	16.55	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	1.50	31.28	35.71
MACHINERY MAINTENANCE WORKERS	20	1.00	30.48	28.57
MAINTENANCE REPAIRERS-GENERAL UTILITY	180	9.04	10.72	50.00
MOBILE HEAVY EQUIPMENT MECHANICS-EXCEPT ENGINES	30	1.50	25.46	35.71
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	70	3.51	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	2.01	N.A.	N.A.
ELECTRICIANS	40	2.01	23.13	42.86
EXTRACTIVE AND RELATED OCCUPATIONS-INCLUDING BLASTERS	20	1.00	49.67	21.43
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	230	11.55	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	170	8.54	36.68	28.57
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	60	3.01	40.29	28.57
PLANT AND SYSTEM OCCUPATIONS	60	3.01	26.97	35.71
MOTOR VEHICLE OPERATORS	170	8.54	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	170	8.54	39.02	28.57
MATERIAL MOVING EQUIPMENT OPERATORS	250	12.55	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	60	3.01	29.45	42.86
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	1.00	31.83	28.57
CONVEYOR OPERATORS AND TENDERS	80	4.02	45.40	42.86
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	90	4.52	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	190	9.54	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	3.51	45.28	35.71
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	120	6.03	35.97	35.71
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	90	4.52	N.A.	N.A.

SIC 325 STRUCTURAL CLAY PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,040	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	190	4.67	N.A.	N.A.
FINANCIAL MANAGERS	20	0.49	18.94	47.37
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.24	12.61	31.58
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.24	24.19	21.05
INDUSTRIAL PRODUCTION MANAGERS	40	0.99	21.25	57.89
GENERAL MANAGERS AND TOP EXECUTIVES	90	2.22	16.61	84.21
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	150	3.70	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	0.99	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.99	31.93	26.32
ENGINEERS	40	0.98	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	20	0.49	21.16	26.32
ALL OTHER ENGINEERS	20	0.49	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	70	1.73	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	310	7.66	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	60	1.48	11.41	21.05
SALES ENGINEERS	70	1.73	7.12	15.79
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	140	3.46	26.36	63.16
ALL OTHER SALES AND RELATED WORKERS	40	0.99	27.41	21.05
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	530	13.06	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	1.48	20.48	31.58
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	20	0.49	N.A.	N.A.
SECRETARIES	40	0.99	16.44	52.63
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.49	16.83	15.79
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	40	0.99	24.88	21.05
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	1.98	22.10	68.42
PAYROLL AND TIMEKEEPING CLERKS	20	0.49	20.05	36.84
GENERAL OFFICE CLERKS	50	1.23	14.99	36.84
SWITCHBOARD OPERATORS	10	0.24	31.79	26.32
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	120	2.95	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	10	0.24	35.85	21.05
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.74	7.05	21.05

SIC 325 STRUCTURAL CLAY PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.74	19.98	21.05
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	1.23	21.80	36.84
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	1.73	N.A.	N.A.
SERVICE OCCUPATIONS	80	1.97	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.49	25.98	15.79
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	60	1.48	10.61	26.32
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,780	68.68	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	180	4.45	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	160	3.96	9.72	73.68
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.49	47.93	15.79
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	170	4.20	23.75	47.37
MECHANICS, INSTALLERS, AND REPAIRERS	210	5.18	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	60	1.48	18.85	31.58
MACHINERY MAINTENANCE WORKERS	30	0.74	16.80	15.79
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	1.98	20.07	52.63
AUTOMOTIVE MECHANICS	20	0.49	33.76	21.05
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.49	21.05	15.79
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.48	N.A.	N.A.
ELECTRICIANS	10	0.24	23.40	26.32
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	10	0.24	9.89	10.53
PRECISION PRODUCTION OCCUPATIONS	30	0.73	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.49	32.61	15.79
MACHINISTS	10	0.24	16.93	10.53
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	40	0.99	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	40	0.99	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	720	17.80	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	140	3.46	17.45	52.63
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	100	2.47	28.17	26.32
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	140	3.46	13.55	68.42

SIC 325 STRUCTURAL CLAY PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	230	5.69	40.16	36.84
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	80	1.98	43.87	26.32
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	30	0.74	46.71	15.79
OTHER HANDWORKING OCCUPATIONS	240	5.92	N.A.	N.A.
GLAZIERS-MANUFACTURING	10	0.24	46.99	10.53
WELDERS AND CUTTERS	10	0.24	47.75	15.79
MOLDERS AND CASTERS-HAND	150	3.71	43.52	15.79
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	70	1.73	45.59	21.05
MOTOR VEHICLE OPERATORS	230	5.69	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	230	5.69	19.01	63.16
MATERIAL MOVING EQUIPMENT OPERATORS	60	1.48	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	20	0.49	41.30	21.05
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	0.99	37.05	31.58
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	810	20.03	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	170	4.20	28.71	36.84
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	1.73	28.04	31.58
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	570	14.10	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	70	1.73	N.A.	N.A.

SIC 326 POTTERY AND RELATED PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,530	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	100	3.97	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	0.79	18.45	43.75
GENERAL MANAGERS AND TOP EXECUTIVES	40	1.59	11.85	93.75
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	50	1.98	N.A.	N.A.
ENGINEERS	10	0.39	N.A.	N.A.
ALL OTHER ENGINEERS	10	0.39	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	1.19	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	140	5.54	N.A.	N.A.
SECRETARIES	10	0.39	18.07	43.75
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.79	10.85	50.00
GENERAL OFFICE CLERKS	10	0.39	15.55	43.75
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	40	1.58	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.39	35.35	18.75
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	1.19	17.36	43.75
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	2.39	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.19	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	1.19	31.87	25.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,180	86.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	40	1.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	40	1.59	26.75	50.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	1.19	27.28	18.75
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	2.39	33.70	25.00
MECHANICS, INSTALLERS, AND REPAIRERS	90	3.57	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	1.59	34.44	31.25
MACHINERY MAINTENANCE WORKERS	20	0.79	14.99	18.75
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	1.19	16.00	37.50
PRECISION PRODUCTION OCCUPATIONS	380	15.12	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	10	0.39	N.A.	N.A.
PRECISION MOLDERS, SHAPERS, CASTERS, AND CARVERS-EXCEPT JEWELRY AND FOUNDRY	310	12.35	27.72	37.50

SIC 326 POTTERY AND RELATED PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION PATTERNMAKERS, MODEL MAKERS, LAYOUT OCCUPATIONS, AND CUTTERS	50	1.99	4.94	18.75
ALL OTHER PRECISION WORKERS	10	0.39	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	50	1.99	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	50	1.99	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	300	11.94	N.A.	N.A.
FURNACE, KILN, OVEN, DRIER, AND KETTLE OPERATORS AND TENDERS	120	4.78	10.24	68.75
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	30	1.19	46.50	25.00
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	30	1.19	14.58	43.75
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	120	4.78	16.43	12.50
OTHER HANDWORKING OCCUPATIONS	400	15.90	N.A.	N.A.
GLAZIERS-MANUFACTURING	30	1.19	0.00	6.25
SOLDERERS AND BRAZERS	20	0.79	0.00	6.25
MOLDERS AND CASTERS-HAND	140	5.57	26.83	37.50
PAINTING, COATING, AND DECORATING WORKERS-HAND	80	3.18	17.37	50.00
GRINDING AND POLISHING WORKERS-HAND	80	3.18	10.91	50.00
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	50	1.99	24.43	18.75
MOTOR VEHICLE OPERATORS	10	0.39	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	10	0.39	48.81	18.75
MATERIAL MOVING EQUIPMENT OPERATORS	160	6.36	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	3.18	14.94	31.25
CONVEYOR OPERATORS AND TENDERS	80	3.18	0.00	6.25
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	360	14.32	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	20	0.79	34.96	18.75
MACHINE FEEDERS AND OFFBEARERS	50	1.99	43.94	18.75
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	1.59	24.88	37.50
HAND PACKERS AND PACKAGERS	120	4.78	20.42	50.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	130	5.17	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	300	11.95	N.A.	N.A.

SIC 327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	16,600	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,260	7.57	N.A.	N.A.
FINANCIAL MANAGERS	70	0.42	21.28	32.61
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.12	41.28	13.04
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.24	25.32	21.74
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.24	39.63	17.39
INDUSTRIAL PRODUCTION MANAGERS	240	1.44	24.68	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	760	4.57	20.05	80.43
ALL OTHER MANAGERS AND ADMINISTRATORS	90	0.54	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	380	2.28	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	100	0.60	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	100	0.60	42.88	30.43
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.12	38.54	13.04
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.12	38.00	15.22
COST ESTIMATORS	20	0.12	40.02	10.87
ALL OTHER MANAGEMENT SUPPORT WORKERS	40	0.24	N.A.	N.A.
ENGINEERS	30	0.18	N.A.	N.A.
CIVIL ENGINEERS-INCLUDING TRAFFIC	30	0.18	32.54	10.87
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.48	N.A.	N.A.
DRAFTERS	80	0.48	37.15	15.22
ALL OTHER ENGINEERS AND RELATED WORKERS	40	0.24	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.12	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.12	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	620	3.72	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	0.24	43.44	21.74
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	380	2.28	21.38	52.17
ALL OTHER SALES AND RELATED WORKERS	200	1.20	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,470	8.82	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.36	33.15	21.74
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	20	0.12	N.A.	N.A.
SECRETARIES	390	2.34	18.31	60.87
RECEPTIONISTS AND INFORMATION CLERKS	30	0.18	42.90	13.04

SIC 327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	220	1.32	26.11	43.48
PAYROLL AND TIMEKEEPING CLERKS	50	0.30	25.30	28.26
GENERAL OFFICE CLERKS	150	0.90	45.07	32.61
SWITCHBOARD OPERATORS	40	0.24	28.77	19.57
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	360	2.16	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	290	1.74	21.84	56.52
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.12	42.51	10.87
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	0.30	29.08	19.57
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	150	0.90	N.A.	N.A.
SERVICE OCCUPATIONS	160	0.96	N.A.	N.A.
GUARDS AND WATCH GUARDS	50	0.30	30.73	19.57
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.48	37.96	19.57
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	12,640	75.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	880	5.28	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	90	0.54	21.74	32.61
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	510	3.06	22.55	56.52
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	130	0.78	19.61	30.43
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	150	0.90	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	140	0.84	22.54	34.78
MECHANICS, INSTALLERS, AND REPAIRERS	1,020	6.12	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	290	1.74	36.43	32.61
MAINTENANCE REPAIRERS-GENERAL UTILITY	260	1.56	26.11	41.30
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	310	1.86	22.36	43.48
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	140	0.84	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.12	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	680	4.08	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	60	0.36	N.A.	N.A.
CONCRETE AND TERRAZZO FINISHERS	550	3.30	33.88	13.04
ALL OTHER SELECTED ROAD, RAIL, AND RELATED CONSTRUCTION AND MAINTENANCE WORKERS-EXCEPT MASONRY WORKERS	70	0.42	N.A.	N.A.

SIC 327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	200	1.20	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	120	0.72	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	50	0.30	N.A.	N.A.
ALL OTHER PRECISION WORKERS	70	0.42	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	100	0.60	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	40	0.24	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	60	0.36	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,080	6.48	N.A.	N.A.
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	330	1.98	30.10	39.13
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE SETTERS AND SET-UP OPERATORS	220	1.32	46.73	17.39
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	530	3.18	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	900	5.40	N.A.	N.A.
WELDERS AND CUTTERS	360	2.16	26.41	34.78
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	60	0.36	25.89	4.35
ALL OTHER HAND WORKERS	480	2.88	N.A.	N.A.
MOTOR VEHICLE OPERATORS	4,760	28.63	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	4,480	26.95	14.56	86.96
ALL OTHER MOTOR VEHICLE OPERATORS	280	1.68	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	990	5.94	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	140	0.84	43.77	19.57
CRANE AND TOWER OPERATORS	130	0.78	30.38	17.39
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	430	2.58	20.06	34.78
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	290	1.74	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,730	10.40	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	80	0.48	40.16	21.74
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,650	9.92	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	110	0.66	N.A.	N.A.

SIC 329 MISC. NONMETALLIC MINERAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	5,140	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	220	4.26	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	10	0.19	35.57	33.33
INDUSTRIAL PRODUCTION MANAGERS	50	0.97	33.38	38.10
GENERAL MANAGERS AND TOP EXECUTIVES	120	2.33	18.66	71.43
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	120	2.29	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.19	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.19	15.29	23.81
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.19	10.20	19.05
ENGINEERS	50	0.95	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.38	11.04	23.81
MECHANICAL ENGINEERS	20	0.38	34.07	23.81
ALL OTHER ENGINEERS	10	0.19	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.19	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.19	13.45	19.05
SALES AND RELATED OCCUPATIONS	130	2.51	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	60	1.16	23.53	19.05
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.77	43.14	14.29
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	440	8.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.38	18.49	28.57
ADJUSTMENT CLERKS	10	0.19	24.84	9.52
SECRETARIES	50	0.97	37.25	47.62
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.38	22.24	23.81
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	0.77	40.81	38.10
GENERAL OFFICE CLERKS	140	2.71	28.31	52.38
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.38	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	20	0.38	11.11	19.05
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	80	1.54	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.38	5.77	14.29
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.19	24.78	9.52
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	0.97	23.93	33.33
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.16	N.A.	N.A.

SIC 329 MISC. NONMETALLIC MINERAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SERVICE OCCUPATIONS	50	0.97	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,180	81.07	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	180	3.49	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	180	3.49	19.72	57.14
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	90	1.74	29.82	38.10
MECHANICS, INSTALLERS, AND REPAIRERS	420	8.13	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	260	5.04	20.96	47.62
MACHINERY MAINTENANCE WORKERS	70	1.35	15.43	19.05
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	10	0.19	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	80	1.55	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	140	2.71	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	110	2.13	N.A.	N.A.
ELECTRICIANS	30	0.58	19.00	23.81
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	180	3.48	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.77	24.79	9.52
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	120	2.33	33.83	14.29
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.38	0.00	4.76
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	40	0.77	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	40	0.77	N.A.	N.A.
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	220	4.27	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,340	26.01	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	540	10.48	21.06	52.38
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	240	4.66	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	560	10.87	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	50	0.97	N.A.	N.A.

SIC 329 MISC. NONMETALLIC MINERAL PRODUCTS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CUTTERS AND TRIMMERS-HAND	50	0.97	26.33	9.52
MOTOR VEHICLE OPERATORS	120	2.33	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	120	2.33	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	480	9.31	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	340	6.60	38.94	33.33
CONVEYOR OPERATORS AND TENDERS	20	0.38	24.80	14.29
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	120	2.33	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	680	13.20	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	120	2.33	49.74	14.29
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	240	4.66	28.96	33.33
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	320	6.21	46.99	28.57
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	240	4.66	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 33 - PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in smelting and refining ferrous and nonferrous metals from ore, pig, or scrap; in rolling, drawing, and alloying metals; in manufacturing castings and other basic metal products; and in manufacturing nails, spikes, and insulated wire and cable.

SIC 331 - STEEL WORKS, BLAST FURNACES, AND ROLLING AND FINISHING MILLS

Establishments that are primarily engaged in manufacturing steel works, blast furnaces (including coke ovens), and rolling mills; electrometallurgical products, except steel; and steel wiredrawing and steel nails and spikes; cold-rolled steel sheet, strip, and bars; and steel pipe and tubes are in this industry.

SIC 332 - IRON AND STEEL FOUNDRIES

This industry group includes establishments primarily engaged in manufacturing gray and ductile iron foundries; malleable iron foundries; steel investment foundries; and steel foundries, not elsewhere classified.

SIC 333 - PRIMARY SMELTING AND REFINING OF NONFERROUS METALS

This industry group includes establishments primarily engaged in smelting and refining copper; producing aluminum from alumina and refining aluminum by any process; and smelting and refining nonferrous metals, except copper and aluminum.

SIC 335 - ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS

Establishments that are primarily engaged in rolling, drawing, and extruding copper; aluminum sheet, plate, and foil; aluminum extruded products; aluminum rolling and drawing, not elsewhere classified, such as rolled and continuous cast rod and bar; rolling, drawing, and extruding nonferrous metals, except copper and aluminum; and drawing and insulating nonferrous wire are in this industry.

SIC 336 - NONFERROUS FOUNDRIES (CASTINGS)

This industry group includes establishments primarily engaged in manufacturing aluminum die-castings; nonferrous die-castings, except aluminum; aluminum foundries; copper foundries; and nonferrous foundries, except aluminum and copper.

SIC 33 PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	29,000	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,350	4.60	N.A.	N.A.
FINANCIAL MANAGERS	150	0.51	12.02	42.86
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	60	0.20	14.48	25.71
PURCHASING MANAGERS	40	0.13	15.82	23.81
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	80	0.27	13.10	27.62
ADMINISTRATIVE SERVICES MANAGERS	20	0.06	21.53	7.62
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	90	0.31	10.59	22.86
INDUSTRIAL PRODUCTION MANAGERS	300	1.03	8.95	60.00
GENERAL MANAGERS AND TOP EXECUTIVES	460	1.58	7.03	92.38
ALL OTHER MANAGERS AND ADMINISTRATORS	150	0.51	25.02	16.19
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,520	5.11	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	180	0.61	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	160	0.55	21.16	26.67
BUDGET ANALYSTS	10	0.03	28.85	4.76
ALL OTHER FINANCIAL SPECIALISTS	10	0.03	31.41	2.86
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	120	0.41	13.23	33.33
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	50	0.17	13.38	16.19
COST ESTIMATORS	30	0.10	41.67	5.71
ALL OTHER MANAGEMENT SUPPORT WORKERS	40	0.13	12.36	6.67
ENGINEERS	430	1.44	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	120	0.41	13.26	20.00
ELECTRICAL AND ELECTRONIC ENGINEERS	60	0.20	12.20	14.29
COMPUTER ENGINEERS	20	0.06	18.71	5.71
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	50	0.17	14.00	15.24
SAFETY ENGINEERS-EXCEPT MINING	20	0.06	20.81	12.38
MECHANICAL ENGINEERS	120	0.41	13.37	23.81
ALL OTHER ENGINEERS	40	0.13	22.82	7.62
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	340	1.16	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	90	0.31	10.61	12.38
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	50	0.17	30.97	8.57
DRAFTERS	120	0.41	22.54	19.05
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.27	31.34	7.62
PHYSICAL SCIENTISTS	40	0.13	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	40	0.13	13.74	7.62

SIC 33 PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	150	0.50	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	130	0.44	22.65	12.38
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.06	27.43	1.90
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	110	0.37	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	50	0.17	13.77	10.48
COMPUTER PROGRAMMERS	50	0.17	31.12	11.43
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	10	0.03	32.01	1.90
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	20	0.06	13.71	9.52
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	10	0.03	40.49	2.86
SALES AND RELATED OCCUPATIONS	840	2.87	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	50	0.17	23.88	11.43
SALES ENGINEERS	10	0.03	31.87	4.76
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	510	1.75	42.69	17.14
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	220	0.75	18.00	24.76
ALL OTHER SALES AND RELATED WORKERS	50	0.17	22.07	9.52
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,400	8.15	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	280	0.96	13.08	31.43
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	30	0.10	N.A.	N.A.
SECRETARIES	290	0.99	8.97	55.24
STENOGRAPHERS	10	0.03	26.82	1.90
RECEPTIONISTS AND INFORMATION CLERKS	40	0.13	13.75	19.05
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	50	0.17	26.42	9.52
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.06	14.19	7.62
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.13	20.25	15.24
PROCUREMENT CLERKS	30	0.10	14.27	13.33
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	230	0.79	11.11	46.67
PAYROLL AND TIMEKEEPING CLERKS	40	0.13	10.30	20.00
BILLING, COST AND RATE CLERKS	40	0.13	19.22	17.14
GENERAL OFFICE CLERKS	280	0.96	13.29	41.90
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	0.27	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.10	26.69	10.48
DATA ENTRY KEYERS-EXCEPT COMPOSING	50	0.17	16.41	8.57

SIC 33   PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SWITCHBOARD OPERATORS	30	0.10	19.25	12.38
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	850	2.90	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	120	0.41	11.32	28.57
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	110	0.37	31.12	9.52
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	200	0.68	16.36	24.76
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	340	1.17	12.79	51.43
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	80	0.27	21.98	5.71
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	0.20	N.A.	N.A.
SERVICE OCCUPATIONS	360	1.21	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	10	0.03	37.87	7.62
GUARDS AND WATCH GUARDS	110	0.37	16.28	15.24
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	220	0.75	6.88	40.00
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.03	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	22,520	77.19	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,900	6.52	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	230	0.79	9.50	26.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	80	0.27	20.69	5.71
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,280	4.41	5.71	74.29
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	80	0.27	17.17	16.19
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	170	0.58	24.21	16.19
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	60	0.20	47.36	6.67
PRECISION INSPECTORS, TESTERS, AND GRADERS	240	0.82	17.14	16.19
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	580	1.99	25.75	31.43
MECHANICS, INSTALLERS, AND REPAIRERS	2,580	8.85	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	960	3.30	9.61	34.29
MILLWRIGHTS	220	0.75	46.97	3.81
REFRACTORY MATERIALS REPAIRERS-EXCEPT BRICK MASONS	60	0.20	24.61	5.71

SIC 33 PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINERY MAINTENANCE WORKERS	460	1.58	19.29	10.48
MAINTENANCE REPAIRERS-GENERAL UTILITY	500	1.72	15.44	40.95
AUTOMOTIVE MECHANICS	80	0.27	21.39	7.62
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	90	0.31	41.11	5.71
PRECISION INSTRUMENT REPAIRERS	160	0.55	19.32	4.76
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	50	0.17	16.64	3.81
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	630	2.13	N.A.	N.A.
CARPENTERS	40	0.13	21.34	5.71
ELECTRICIANS	440	1.51	9.41	18.10
BRICKMASONS	110	0.37	17.18	5.71
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	20	0.06	35.25	4.76
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.06	14.62	2.86
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	60	0.20	33.74	2.86
PRECISION PRODUCTION OCCUPATIONS	1,780	6.10	N.A.	N.A.
TOOL AND DIE MAKERS	110	0.37	21.25	17.14
MACHINISTS	320	1.10	11.11	25.71
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	300	1.03	27.01	14.29
PATTERN AND MODEL MAKERS-METAL	30	0.10	26.20	5.71
ALL OTHER PRECISION METAL WORKERS	160	0.55	N.A.	N.A.
PATTERN AND MODEL MAKERS-WOOD	120	0.41	24.55	8.57
PRECISION FOUNDRY MOLD AND CORE MAKERS	680	2.34	13.00	20.00
ALL OTHER PRECISION WORKERS	60	0.20	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	670	2.27	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	100	0.34	37.67	8.57
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	0.20	43.42	6.67
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	200	0.68	28.71	3.81
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	110	0.37	27.55	7.62
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	200	0.68	27.99	9.52
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	1,340	4.60	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	100	0.34	33.37	6.67
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	80	0.27	23.57	7.62

SIC 33 - PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
EXTRUDING AND DRAWING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	880	3.03	23.36	20.00
ROLLING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	200	0.68	41.94	9.52
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	280	0.96	33.24	11.43
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	140	0.48	N.A.	N.A.
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	140	0.48	46.16	3.81
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	10	0.03	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	10	0.03	35.06	1.90
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	2,870	9.85	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	600	2.06	25.12	19.05
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	440	1.51	17.18	15.24
FOUNDRY MOLD ASSEMBLY AND SHAKEOUT OCCUPATIONS	560	1.92	15.83	25.71
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	30	0.10	27.30	3.81
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	410	1.41	25.66	15.24
FURNACE OPERATORS AND TENDERS	790	2.72	15.54	38.10
HEATERS-METAL AND PLASTIC	40	0.13	44.79	3.81
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	640	2.20	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	340	1.17	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	300	1.03	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	850	2.92	N.A.	N.A.
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	50	0.17	34.34	10.48
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	160	0.55	17.96	7.62
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	100	0.34	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	540	1.86	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	2,320	7.96	N.A.	N.A.
WELDERS AND CUTTERS	380	1.30	20.26	25.71

SIC 33 PRIMARY METAL INDUSTRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
METAL POURERS AND CASTERS-BASIC SHAPES	370	1.27	12.83	28.57
GRINDING AND POLISHING WORKERS-HAND	620	2.13	16.55	17.14
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	730	2.51	19.37	20.95
ALL OTHER HAND WORKERS	220	0.75	33.17	4.76
PLANT AND SYSTEM OCCUPATIONS	180	0.61	N.A.	N.A.
POWER DISTRIBUTORS AND DISPATCHERS	50	0.17	12.15	2.86
ALL OTHER PLANT AND SYSTEM OPERATORS	130	0.44	23.94	4.76
MOTOR VEHICLE OPERATORS	620	2.12	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	520	1.79	21.54	27.62
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	80	0.27	17.24	14.29
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.06	29.82	1.90
RAILROAD BRAKE, SIGNAL, AND SWITCH OPERATORS	30	0.10	17.54	4.76
MATERIAL MOVING EQUIPMENT OPERATORS	1,650	5.66	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	20	0.06	35.68	1.90
CRANE AND TOWER OPERATORS	770	2.65	8.96	20.00
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	480	1.65	12.54	28.57
CONVEYOR OPERATORS AND TENDERS	120	0.41	31.18	6.67
PUMP OPERATORS	180	0.62	34.83	2.86
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	80	0.27	21.57	6.67
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	3,210	11.04	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	30	0.10	11.20	2.86
MACHINE FEEDERS AND OFFBEARERS	120	0.41	13.09	5.71
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	780	2.68	16.43	20.95
HAND PACKERS AND PACKAGERS	160	0.55	14.31	12.38
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,120	7.30	N.A.	N.A.

SIC 331 BLAST FURNACE AND BASIC STEEL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	7,540	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	370	4.85	N.A.	N.A.
FINANCIAL MANAGERS	60	0.79	22.72	50.00
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.26	30.58	22.73
PURCHASING MANAGERS	10	0.13	44.46	27.27
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.26	36.58	22.73
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.39	19.81	27.27
INDUSTRIAL PRODUCTION MANAGERS	60	0.79	32.73	59.09
GENERAL MANAGERS AND TOP EXECUTIVES	100	1.31	18.43	77.27
ALL OTHER MANAGERS AND ADMINISTRATORS	70	0.92	46.83	27.27
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	350	4.57	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	80	1.05	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	80	1.05	37.23	31.82
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.39	21.53	45.45
ENGINEERS	80	1.04	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	40	0.52	19.08	27.27
ELECTRICAL AND ELECTRONIC ENGINEERS	20	0.26	33.86	18.18
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.13	39.36	13.64
MECHANICAL ENGINEERS	10	0.13	24.36	22.73
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	70	0.91	N.A.	N.A.
DRAFTERS	50	0.65	48.60	13.64
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	0.26	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.26	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.26	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	70	0.92	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	560	7.37	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	150	1.97	24.41	50.00
ALL OTHER SALES AND RELATED WORKERS	410	5.40	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	790	10.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	2.37	19.18	50.00
SECRETARIES	80	1.05	25.29	50.00

SIC 331 BLAST FURNACE AND BASIC STEEL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	1.05	17.01	54.55
PAYROLL AND TIMEKEEPING CLERKS	20	0.26	17.96	36.36
GENERAL OFFICE CLERKS	150	1.97	20.31	63.64
SWITCHBOARD OPERATORS	10	0.13	26.95	31.82
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	200	2.62	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.26	38.51	27.27
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.26	28.83	13.64
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	0.52	25.61	27.27
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	120	1.58	32.75	59.09
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.92	N.A.	N.A.
SERVICE OCCUPATIONS	70	0.91	N.A.	N.A.
GUARDS AND WATCH GUARDS	30	0.39	47.15	18.18
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.39	24.68	36.36
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	5,400	70.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	570	7.50	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	450	5.92	11.27	77.27
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	120	1.58	N.A.	N.A.
PRECISION INSPECTORS, TESTERS, AND GRADERS	20	0.26	24.64	9.09
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	130	1.71	35.50	40.91
MECHANICS, INSTALLERS, AND REPAIRERS	530	6.96	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	150	1.97	36.69	27.27
MAINTENANCE REPAIRERS-GENERAL UTILITY	210	2.76	32.23	45.45
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	50	0.65	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	120	1.58	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	230	3.02	N.A.	N.A.
ELECTRICIANS	200	2.63	14.90	27.27
ALL OTHER MASONRY AND RELATED WORKERS	30	0.39	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	50	0.65	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	170	2.22	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.26	26.63	13.64

SIC 331 BLAST FURNACE AND BASIC STEEL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINISTS	80	1.05	27.02	36.36
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	0.26	41.46	22.73
ALL OTHER PRECISION METAL WORKERS	50	0.65	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	40	0.52	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	40	0.52	29.53	9.09
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	240	3.16	N.A.	N.A.
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	0.79	26.93	22.73
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	180	2.37	45.68	22.73
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	2.89	N.A.	N.A.
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	40	0.52	45.77	13.64
FURNACE OPERATORS AND TENDERS	180	2.37	43.64	18.18
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	840	11.06	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	840	11.06	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	160	2.10	N.A.	N.A.
CRUSHING, GRINDING, MIXING, AND BLENDING MACHINE OPERATORS AND TENDERS	10	0.13	42.18	13.64
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.26	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	130	1.71	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	210	2.76	N.A.	N.A.
WELDERS AND CUTTERS	140	1.84	31.41	40.91
METAL POURERS AND CASTERS-BASIC SHAPES	70	0.92	37.46	13.64
MOTOR VEHICLE OPERATORS	220	2.89	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	200	2.63	48.75	45.45
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.26	38.14	27.27
RAILROAD BRAKE, SIGNAL, AND SWITCH OPERATORS	20	0.26	22.05	13.64
MATERIAL MOVING EQUIPMENT OPERATORS	540	7.10	N.A.	N.A.
CRANE AND TOWER OPERATORS	340	4.47	16.37	31.82
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	140	1.84	28.96	36.36
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	60	0.79	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	1,100	14.48	N.A.	N.A.

SIC 331 BLAST FURNACE AND BASIC STEEL PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE FEEDERS AND OFFBEARERS	10	0.13	0.00	4.55
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	160	2.10	32.64	22.73
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	930	12.25	25.58	40.91
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	110	1.44	N.A.	N.A.

SIC 332 IRON AND STEEL FOUNDRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	8,360	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	340	4.02	N.A.	N.A.
FINANCIAL MANAGERS	30	0.35	18.51	56.25
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.35	19.63	37.50
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.23	23.72	18.75
INDUSTRIAL PRODUCTION MANAGERS	60	0.71	12.15	75.00
GENERAL MANAGERS AND TOP EXECUTIVES	110	1.31	12.11	0.00
ALL OTHER MANAGERS AND ADMINISTRATORS	90	1.07	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	350	4.07	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.23	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.23	18.94	31.25
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.35	30.39	37.50
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.11	19.66	25.00
ENGINEERS	100	1.16	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	30	0.35	40.68	31.25
COMPUTER ENGINEERS	20	0.23	24.62	18.75
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.23	20.57	31.25
MECHANICAL ENGINEERS	30	0.35	41.87	25.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	80	0.94	N.A.	N.A.
DRAFTERS	20	0.23	13.46	25.00
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	0.71	47.70	12.50
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.47	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.47	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	30	0.34	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.23	32.66	6.25
COMPUTER PROGRAMMERS	10	0.11	11.80	25.00
SALES AND RELATED OCCUPATIONS	120	1.40	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.23	22.68	31.25
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	0.71	18.53	31.25
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.23	37.97	25.00
ALL OTHER SALES AND RELATED WORKERS	20	0.23	31.81	6.25

SIC 332 IRON AND STEEL FOUNDRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	580	6.81	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50	0.59	17.94	37.50
SECRETARIES	40	0.47	12.64	43.75
RECEPTIONISTS AND INFORMATION CLERKS	10	0.11	27.04	25.00
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.23	32.55	31.25
PROCUREMENT CLERKS	10	0.11	19.93	18.75
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	60	0.71	23.82	62.50
BILLING, COST AND RATE CLERKS	10	0.11	33.66	31.25
GENERAL OFFICE CLERKS	30	0.35	44.30	25.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	0.35	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.35	19.14	12.50
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	250	2.96	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.23	26.94	25.00
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	80	0.95	35.34	31.25
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	0.59	28.97	31.25
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	100	1.19	32.66	6.25
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	0.71	N.A.	N.A.
SERVICE OCCUPATIONS	130	1.54	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	100	1.19	8.80	50.00
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.11	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,830	81.17	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	450	5.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	50	0.59	16.91	43.75
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	70	0.83	22.54	18.75
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	230	2.74	12.12	87.50
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	40	0.47	27.50	18.75
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	0.71	27.67	18.75

SIC 332 IRON AND STEEL FOUNDRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION INSPECTORS, TESTERS, AND GRADERS.:	80	0.95	37.64	25.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	310	3.69	45.67	25.00
MECHANICS, INSTALLERS, AND REPAIRERS	630	7.48	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	300	3.57	21.40	43.75
MILLWRIGHTS	100	1.19	28.80	12.50
REFRACTORY MATERIALS REPAIRERS-EXCEPT BRICK MASONS	30	0.35	30.08	12.50
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	1.31	23.23	50.00
AUTOMOTIVE MECHANICS	50	0.59	32.27	6.25
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	40	0.47	26.87	12.50
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	120	1.41	N.A.	N.A.
CARPENTERS	20	0.23	30.77	12.50
ELECTRICIANS	90	1.07	22.52	25.00
ALL OTHER PLUMBING AND RELATED WORKERS	10	0.11	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	1,090	12.97	N.A.	N.A.
MACHINISTS	80	0.95	30.93	12.50
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	240	2.86	32.83	37.50
ALL OTHER PRECISION METAL WORKERS	110	1.31	N.A.	N.A.
PATTERN AND MODEL MAKERS-WOOD	100	1.19	27.16	25.00
PRECISION FOUNDRY MOLD AND CORE MAKERS	500	5.95	15.80	56.25
ALL OTHER PRECISION WORKERS	60	0.71	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	230	2.73	N.A.	N.A.
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	180	2.14	30.54	12.50
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	50	0.59	48.10	18.75
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	900	10.70	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	270	3.21	33.11	25.00
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	180	2.14	32.42	37.50
FOUNDRY MOLD ASSEMBLY AND SHAKEOUT OCCUPATIONS	300	3.57	22.34	68.75
FURNACE OPERATORS AND TENDERS	150	1.78	18.65	56.25
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	370	4.40	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	90	1.07	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	280	3.33	N.A.	N.A.

SIC 332 IRON AND STEEL FOUNDRIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	190	2.26	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	70	0.83	28.89	12.50
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	120	1.43	37.19	18.75
OTHER HANDWORKING OCCUPATIONS	1,110	13.20	N.A.	N.A.
WELDERS AND CUTTERS	140	1.66	40.98	37.50
METAL POURERS AND CASTERS-BASIC SHAPES	180	2.14	19.35	62.50
GRINDING AND POLISHING WORKERS-HAND	540	6.43	18.81	50.00
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	200	2.38	23.15	25.00
ALL OTHER HAND WORKERS	50	0.59	33.98	18.75
PLANT AND SYSTEM OCCUPATIONS	20	0.23	N.A.	N.A.
ALL OTHER PLANT AND SYSTEM OPERATORS	20	0.23	32.66	6.25
MOTOR VEHICLE OPERATORS	220	2.61	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	200	2.38	23.64	31.25
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.23	32.66	6.25
MATERIAL MOVING EQUIPMENT OPERATORS	240	2.85	N.A.	N.A.
CRANE AND TOWER OPERATORS	100	1.19	26.66	18.75
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	120	1.43	25.28	25.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.23	32.92	6.25
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	830	9.88	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	400	4.76	26.22	37.50
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	430	5.12	39.14	43.75

SIC 333 PRIMARY NONFERROUS METALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,660	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	110	2.33	N.A.	N.A.
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.42	11.54	0.00
INDUSTRIAL PRODUCTION MANAGERS	40	0.85	8.32	0.00
GENERAL MANAGERS AND TOP EXECUTIVES	10	0.21	8.66	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	450	9.56	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	0.85	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.85	16.76	0.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.42	2.38	80.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.42	8.70	0.00
ENGINEERS	140	2.98	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	30	0.64	18.06	80.00
ELECTRICAL AND ELECTRONIC ENGINEERS	30	0.64	11.58	0.00
MECHANICAL ENGINEERS	40	0.85	13.48	0.00
ALL OTHER ENGINEERS	40	0.85	12.13	60.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	70	1.49	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	50	1.07	4.62	80.00
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.21	8.18	60.00
DRAFTERS	10	0.21	11.27	80.00
PHYSICAL SCIENTISTS	30	0.64	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	30	0.64	15.09	0.00
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	60	1.28	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	60	1.28	28.66	60.00
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.42	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.42	5.83	0.00
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.21	1.86	0.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	280	5.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.42	14.42	80.00
SECRETARIES	40	0.85	8.06	0.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.42	16.82	0.00
BILLING, COST AND RATE CLERKS	10	0.21	26.19	60.00
GENERAL OFFICE CLERKS	20	0.42	8.28	0.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	2.11	N.A.	N.A.

SIC 333 PRIMARY NONFERROUS METALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.42	5.88	0.00
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.42	43.03	40.00
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.64	8.35	80.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	10	0.21	7.49	80.00
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.42	21.95	40.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	1.50	N.A.	N.A.
SERVICE OCCUPATIONS	80	1.71	N.A.	N.A.
GUARDS AND WATCH GUARDS	50	1.07	11.65	80.00
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.64	4.51	80.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,740	79.98	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	340	7.27	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	100	2.14	9.18	80.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	210	4.50	7.83	80.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	10	0.21	16.98	80.00
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.42	43.91	40.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.21	0.00	20.00
MECHANICS, INSTALLERS, AND REPAIRERS	960	20.54	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	230	4.93	10.78	60.00
MILLWRIGHTS	10	0.21	0.00	20.00
REFRACTORY MATERIALS REPAIRERS-EXCEPT BRICK MASONS	10	0.21	8.89	40.00
MACHINERY MAINTENANCE WORKERS	420	9.01	20.96	60.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	1.71	27.27	80.00
AUTOMOTIVE MECHANICS	20	0.42	12.35	60.00
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.42	21.33	40.00
PRECISION INSTRUMENT REPAIRERS	150	3.21	20.15	60.00
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.42	0.00	20.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	170	3.63	N.A.	N.A.
CARPENTERS	20	0.42	20.74	60.00
ELECTRICIANS	70	1.50	15.70	80.00
BRICKMASONS	80	1.71	13.06	80.00

SIC 333 PRIMARY NONFERROUS METALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION PRODUCTION OCCUPATIONS	130	2.78	N.A.	N.A.
MACHINISTS	110	2.36	11.43	80.00
SHEET METAL OCCUPATIONS	20	0.42	37.91	20.00
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	4.70	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	60	1.28	47.32	20.00
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	10	0.21	0.00	20.00
FURNACE OPERATORS AND TENDERS	150	3.21	9.86	60.00
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	50	1.07	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	50	1.07	0.00	20.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	260	5.57	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	260	5.57	4.77	40.00
OTHER HANDWORKING OCCUPATIONS	190	4.05	N.A.	N.A.
WELDERS AND CUTTERS	40	0.85	28.25	60.00
METAL POURERS AND CASTERS-BASIC SHAPES	20	0.42	19.90	60.00
ALL OTHER HAND WORKERS	130	2.78	47.13	20.00
PLANT AND SYSTEM OCCUPATIONS	150	3.20	N.A.	N.A.
POWER DISTRIBUTORS AND DISPATCHERS	50	1.07	12.15	60.00
STATIONARY ENGINEERS	20	0.42	21.33	40.00
ALL OTHER PLANT AND SYSTEM OPERATORS	80	1.71	30.82	40.00
MOTOR VEHICLE OPERATORS	30	0.64	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.64	0.00	20.00
ALL OTHER RAIL VEHICLE OPERATIVES AND CONTROLLERS	20	0.42	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	570	12.21	N.A.	N.A.
GRADER, DOZER, AND SCRAPER OPERATORS	20	0.42	35.68	40.00
CRANE AND TOWER OPERATORS	220	4.72	1.68	0.00
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	70	1.50	33.76	60.00
CONVEYOR OPERATORS AND TENDERS	50	1.07	11.70	60.00
PUMP OPERATORS	180	3.86	34.83	60.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.64	7.72	60.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	610	13.05	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	30	0.64	4.19	60.00
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	20	0.42	7.33	40.00
MACHINE FEEDERS AND OFFBEARERS	40	0.85	20.07	40.00
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	0.42	37.91	20.00

SIC 333 PRIMARY NONFERROUS METALS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND................	500	10.72	25.84	0.00

SIC 335 NONFERROUS ROLLING AND DRAWING
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,410	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	200	4.52	N.A.	N.A.
FINANCIAL MANAGERS	20	0.45	18.14	47.37
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.22	16.22	42.11
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.45	30.58	31.58
INDUSTRIAL PRODUCTION MANAGERS	60	1.36	17.81	63.16
GENERAL MANAGERS AND TOP EXECUTIVES	60	1.36	13.98	94.74
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	290	6.54	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.22	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.22	15.58	36.84
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.45	16.22	47.37
ALL OTHER MANAGEMENT SUPPORT WORKERS	50	1.13	N.A.	N.A.
ENGINEERS	40	0.90	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	10	0.22	27.18	26.32
MECHANICAL ENGINEERS	30	0.68	21.89	31.58
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	1.35	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.45	31.65	26.32
DRAFTERS	40	0.90	24.54	47.37
ALL OTHER ENGINEERS AND RELATED WORKERS	60	1.36	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.45	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.45	21.84	26.32
SALES AND RELATED OCCUPATIONS	120	2.72	N.A.	N.A.
SALES REPRESENTATIVES- SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	1.36	38.15	15.79
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	0.68	22.57	31.58
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	390	8.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.45	19.02	31.58
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	20	0.45	N.A.	N.A.
SECRETARIES	50	1.13	16.49	73.68
RECEPTIONISTS AND INFORMATION CLERKS	10	0.22	19.38	36.84
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	10	0.22	17.00	36.84
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	0.68	23.29	42.11
GENERAL OFFICE CLERKS	20	0.45	22.73	26.32

SIC 335 NONFERROUS ROLLING AND DRAWING
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	190	4.30	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	50	1.13	13.86	52.63
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	0.68	18.93	42.11
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	110	2.49	11.13	68.42
SERVICE OCCUPATIONS	30	0.67	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.45	14.03	52.63
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,380	76.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	350	7.91	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	0.90	18.73	42.11
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	250	5.66	15.20	84.21
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.45	25.89	31.58
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	0.90	26.07	15.79
PRECISION INSPECTORS, TESTERS, AND GRADERS	90	2.04	20.26	21.05
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	1.58	15.64	47.37
MECHANICS, INSTALLERS, AND REPAIRERS	290	6.56	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	250	5.66	10.10	63.16
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	0.90	33.14	36.84
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	80	1.81	N.A.	N.A.
ELECTRICIANS	80	1.81	21.88	26.32
PRECISION PRODUCTION OCCUPATIONS	40	0.90	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.45	30.45	26.32
MACHINISTS	20	0.45	21.91	26.32
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.22	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.22	28.99	15.79
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	540	12.24	N.A.	N.A.
EXTRUDING AND DRAWING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	540	12.24	22.25	68.42

SIC 335 NONFERROUS ROLLING AND DRAWING
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ROLLING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	80	1.81	36.38	21.05
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	10	0.22	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	10	0.22	35.06	10.53
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	150	3.38	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	20	0.45	43.04	10.53
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	10	0.22	19.26	5.26
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.45	45.66	10.53
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.45	35.10	15.79
FURNACE OPERATORS AND TENDERS	80	1.81	47.07	15.79
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	100	2.26	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	100	2.26	45.78	21.05
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	120	2.72	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	120	2.72	11.30	15.79
OTHER HANDWORKING OCCUPATIONS	500	11.33	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	470	10.65	27.88	52.63
ALL OTHER HAND WORKERS	30	0.68	N.A.	N.A.
MOTOR VEHICLE OPERATORS	50	1.13	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	50	1.13	32.41	26.32
MATERIAL MOVING EQUIPMENT OPERATORS	210	4.75	N.A.	N.A.
CRANE AND TOWER OPERATORS	70	1.58	34.57	15.79
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	120	2.72	15.47	36.84
CONVEYOR OPERATORS AND TENDERS	20	0.45	18.78	5.26
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	490	11.09	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	60	1.36	20.49	10.53
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	130	2.94	15.63	31.58
HAND PACKERS AND PACKAGERS	110	2.49	16.65	31.58
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	190	4.30	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	200	4.53	N.A.	N.A.

SIC 336 NONFERROUS FOUNDRIES (CASTINGS)
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,600	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	190	7.23	N.A.	N.A.
FINANCIAL MANAGERS	10	0.38	11.78	24.14
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.38	26.07	17.24
INDUSTRIAL PRODUCTION MANAGERS	50	1.90	11.14	48.28
GENERAL MANAGERS AND TOP EXECUTIVES	90	3.43	13.42	93.10
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	40	1.52	N.A.	N.A.
ENGINEERS	10	0.38	N.A.	N.A.
MECHANICAL ENGINEERS	10	0.38	28.94	17.24
SALES AND RELATED OCCUPATIONS	20	0.76	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.38	42.67	10.34
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	190	7.22	N.A.	N.A.
SECRETARIES	30	1.14	21.30	41.38
RECEPTIONISTS AND INFORMATION CLERKS	10	0.38	20.71	20.69
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.76	20.25	31.03
GENERAL OFFICE CLERKS	40	1.52	18.41	44.83
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	40	1.52	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.52	13.83	51.72
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.90	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.14	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.76	20.34	31.03
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,130	81.18	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	110	4.19	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	3.81	10.25	68.97
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	10	0.38	39.38	10.34
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	1.14	32.19	17.24
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	50	1.90	29.64	27.59
MECHANICS, INSTALLERS, AND REPAIRERS	90	3.42	N.A.	N.A.

SIC 336 NONFERROUS FOUNDRIES (CASTINGS)
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINERY MAINTENANCE MECHANICS	20	0.76	26.99	17.24
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	1.52	21.25	37.93
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	30	1.14	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	320	12.19	N.A.	N.A.
TOOL AND DIE MAKERS	30	1.14	21.08	24.14
MACHINISTS	40	1.52	23.33	27.59
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	30	1.14	36.87	10.34
PATTERN AND MODEL MAKERS-METAL	20	0.76	38.97	13.79
ALL OTHER PRECISION WOODWORKERS	20	0.76	N.A.	N.A.
PRECISION FOUNDRY MOLD AND CORE MAKERS	180	6.87	21.91	41.38
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	7.24	N.A.	N.A.
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	10	0.38	48.51	6.90
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	80	3.05	34.86	20.69
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	100	3.81	47.87	13.79
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	70	2.67	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	70	2.67	41.25	10.34
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	90	3.43	N.A.	N.A.
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	90	3.43	34.20	10.34
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	730	27.85	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	140	5.34	25.73	41.38
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	240	9.16	20.50	27.59
FOUNDRY MOLD ASSEMBLY AND SHAKEOUT OCCUPATIONS	250	9.54	22.75	51.72
FURNACE OPERATORS AND TENDERS	100	3.81	11.98	58.62
OTHER HANDWORKING OCCUPATIONS	200	7.62	N.A.	N.A.
WELDERS AND CUTTERS	10	0.38	33.32	13.79
METAL POURERS AND CASTERS-BASIC SHAPES	80	3.05	19.58	41.38
GRINDING AND POLISHING WORKERS-HAND	80	3.05	24.34	31.03
ALL OTHER HAND WORKERS	30	1.14	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.38	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	10	0.38	36.72	17.24

SIC 336 NONFERROUS FOUNDRIES (CASTINGS)
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS..........................	80	3.05	N.A.	N.A.
HAND PACKERS AND PACKAGERS.................................	20	0.76	40.46	13.79
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND...............	60	2.29	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS.................	160	6.10	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 34 - FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products, such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance, and a variety of metal and wire products, not elsewhere classified.

SIC 341 - METAL CANS AND SHIPPING CONTAINERS

Establishments that are primarily engaged in manufacturing metal cans from purchased materials; and metal shipping barrels, drums, kegs, and pails are in this industry.

SIC 342 - CUTLERY, HANDTOOLS, AND GENERAL HARDWARE

This industry group includes establishments primarily engaged in manufacturing cutlery; hand and edge tools, except machine tools and handsaws; saw blades and handsaws; and hardware, not elsewhere classified.

SIC 343 - HEATING EQUIPMENT, EXCEPT ELECTRIC AND WARM AIR; AND PLUMBING FIXTURES

This industry group includes establishments primarily engaged in manufacturing enameled iron and metal sanitary ware; metal plumbing fixture fittings and trim; and heating equipment, except electric and warm air furnaces.

SIC 344 - FABRICATED STRUCTURAL METAL PRODUCTS

Establishments that are primarily engaged in fabricating structural metal; metal doors, sash, frames, molding, and trim; fabricating plate work (boiler shops); sheet metal work; architectural and ornamental metal work; manufacturing prefabricated metal buildings and components; and miscellaneous structural metal work are in this industry.

SIC 345 - SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS, AND WASHERS

This industry group includes establishments primarily engaged in manufacturing screw machine products; and bolts, nuts, screws, rivets, and washers.

SIC 346 - METAL FORGINGS AND STAMPINGS

This industry group includes establishments primarily engaged in manufacturing metal forgings and stampings; iron and steel forgings; nonferrous forgings, with or without the use of dies; automotive stampings; crowns and closures; and metal stampings, not elsewhere classified.

SIC 347 - COATING, ENGRAVING, AND ALLIED SERVICES

Establishments that are primarily engaged in all types of electroplating, plating, anodizing, and coloring; and coating, engraving, and allied services, not elsewhere classified, are in this industry.

SIC 348 - ORDNANCE AND ACCESSORIES, EXCEPT VEHICLES AND GUIDED MISSILES

This industry group includes establishments primarily engaged in manufacturing small arms ammunition; ammunition, except for small arms; small firearms; and ordnance and accessories, not elsewhere classified.

SIC 349 - MISCELLANEOUS FABRICATED METAL PRODUCTS

This industry group includes establishments primarily engaged in manufacturing industrial valves; fluid power valves and hose fittings; steel springs, except wire; valves and pipe fittings, not elsewhere classified; wire springs; miscellaneous fabricated wire products; metal foil and leaf; fabricated pipe and pipe fittings; and fabricated metal products, not elsewhere classified.

SIC 34 FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	78,530	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	5,300	6.71	N.A.	N.A.
FINANCIAL MANAGERS	610	0.77	15.29	40.28
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	150	0.19	16.56	17.31
PURCHASING MANAGERS	200	0.25	16.65	20.14
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	330	0.42	26.43	18.02
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	270	0.34	21.50	16.25
ALL OTHER ADMINISTRATIVE MANAGERS	100	0.12	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	960	1.22	12.64	47.70
GENERAL MANAGERS AND TOP EXECUTIVES	2,500	3.18	8.80	83.04
ALL OTHER MANAGERS AND ADMINISTRATORS	180	0.22	26.88	9.54
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	5,860	7.32	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	480	0.60	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	410	0.52	21.06	20.85
BUDGET ANALYSTS	30	0.03	19.51	2.47
ALL OTHER FINANCIAL SPECIALISTS	40	0.05	31.72	2.47
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	570	0.72	13.74	33.92
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	70	0.08	14.68	7.07
COST ESTIMATORS	720	0.91	17.58	18.37
ALL OTHER MANAGEMENT SUPPORT WORKERS	230	0.29	23.82	5.30
ENGINEERS	1,060	1.31	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	40	0.05	12.68	3.53
CIVIL ENGINEERS-INCLUDING TRAFFIC	50	0.06	23.47	2.12
ELECTRICAL AND ELECTRONIC ENGINEERS	60	0.07	15.56	4.59
COMPUTER ENGINEERS	20	0.02	35.92	2.12
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	180	0.22	23.95	8.83
SAFETY ENGINEERS-EXCEPT MINING	50	0.06	33.09	4.24
MECHANICAL ENGINEERS	460	0.58	17.97	18.37
ALL OTHER ENGINEERS	200	0.25	20.19	3.89
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,120	2.68	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	60	0.07	17.52	2.47
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	150	0.19	15.84	5.30
DRAFTERS	1,550	1.97	17.72	23.32
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	360	0.45	23.41	4.59
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	120	0.14	N.A.	N.A.
PHYSICAL SCIENTISTS	100	0.12	9.89	2.12

SIC 34 FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.02	17.14	0.35
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	330	0.40	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	130	0.16	17.52	7.07
COMPUTER PROGRAMMERS	130	0.16	28.57	8.83
COMPUTER PROGRAMMER AIDES	30	0.03	26.40	2.83
PROGRAMMERS-NUMERICAL, TOOL, AND PROCESS CONTROL	40	0.05	30.99	2.83
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	30	0.03	16.58	3.53
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	130	0.16	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	2,150	2.72	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	240	0.30	24.45	10.95
SALES ENGINEERS	90	0.11	45.37	4.59
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	410	0.52	41.93	10.95
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	1,110	1.41	17.15	33.92
ALL OTHER SALES AND RELATED WORKERS	300	0.38	23.42	8.83
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	8,160	10.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	460	0.58	17.96	20.14
ADJUSTMENT CLERKS	260	0.33	21.31	10.25
SECRETARIES	1,360	1.73	10.96	52.30
STENOGRAPHERS	50	0.06	24.73	1.77
RECEPTIONISTS AND INFORMATION CLERKS	160	0.20	29.91	10.60
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	40	0.05	41.49	4.59
TYPISTS-WORD PROCESSING EQUIPMENT	80	0.10	49.51	3.53
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	100	0.12	21.46	11.31
FILE CLERKS	70	0.08	35.37	4.95
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	150	0.19	46.03	7.07
PROCUREMENT CLERKS	90	0.11	31.97	8.48
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	890	1.13	13.36	47.00
PAYROLL AND TIMEKEEPING CLERKS	190	0.24	19.65	18.02
BILLING, COST AND RATE CLERKS	220	0.28	29.46	12.37
GENERAL OFFICE CLERKS	1,050	1.33	15.21	36.40
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	230	0.28	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	140	0.17	26.69	9.89
DATA ENTRY KEYERS-EXCEPT COMPOSING	90	0.11	24.08	9.19
SWITCHBOARD OPERATORS	140	0.17	20.11	15.55

SIC 34   FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	2,540	3.21	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	700	0.89	10.85	27.21
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.02	21.17	2.47
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	640	0.81	13.62	25.09
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	1,090	1.38	12.77	49.82
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	90	0.11	31.23	3.89
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	0.10	N.A.	N.A.
SERVICE OCCUPATIONS	1,380	1.74	N.A.	N.A.
GUARDS AND WATCH GUARDS	130	0.16	42.80	3.53
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	620	0.79	19.64	27.56
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	30	0.03	34.95	2.12
ALL OTHER SERVICE WORKERS	600	0.76	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	55,680	70.58	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	3,540	4.47	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	210	0.26	23.44	15.55
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	170	0.21	30.15	4.59
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	2,800	3.56	7.48	65.37
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	120	0.15	17.55	7.07
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	180	0.22	26.34	7.42
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	60	0.07	37.48	2.47
PRECISION INSPECTORS, TESTERS, AND GRADERS	420	0.53	9.35	10.95
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,140	1.45	11.33	31.80
MECHANICS, INSTALLERS, AND REPAIRERS	2,630	3.32	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,130	1.44	10.90	25.80
MILLWRIGHTS	70	0.08	12.68	1.41
MACHINERY MAINTENANCE WORKERS	80	0.10	35.07	3.53
MAINTENANCE REPAIRERS-GENERAL UTILITY	990	1.26	16.93	31.45

SIC 34 FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	50	0.06	36.34	3.53
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	100	0.12	N.A.	N.A.
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	20	0.02	18.84	1.06
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	190	0.24	16.81	3.18
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,080	1.36	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	330	0.42	N.A.	N.A.
ELECTRICIANS	340	0.43	16.99	10.95
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	160	0.20	30.46	3.53
ALL OTHER PLUMBING AND RELATED WORKERS	250	0.31	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	20	0.02	37.45	1.41
PRECISION PRODUCTION OCCUPATIONS	9,320	11.84	N.A.	N.A.
TOOL AND DIE MAKERS	720	0.91	15.47	22.26
MACHINISTS	2,790	3.55	21.79	36.40
PATTERN AND MODEL MAKERS-METAL	120	0.15	33.71	3.53
PRECISION LAYOUT WORKERS-METAL	570	0.72	29.94	6.36
SHEET METAL OCCUPATIONS	3,880	4.94	23.36	13.07
ALL OTHER PRECISION METAL WORKERS	1,200	1.52	N.A.	N.A.
PRECISION FOUNDRY MOLD AND CORE MAKERS	40	0.05	38.71	1.06
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	3,100	3.93	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	300	0.38	30.41	9.19
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	990	1.26	47.44	10.25
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	590	0.75	34.49	9.19
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.02	37.56	1.77
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	540	0.68	33.05	10.95
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	660	0.84	27.93	11.31
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	3,730	4.72	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	490	0.62	26.77	12.37
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	430	0.54	19.74	12.37

SIC 34 FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	240	0.30	30.86	7.77
ROLLING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	100	0.12	43.32	2.47
FORGING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	240	0.30	26.50	4.24
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	2,330	2.96	22.13	16.25
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	850	1.08	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	260	0.33	33.33	5.65
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	590	0.75	32.19	5.65
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	3,560	4.52	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	680	0.86	42.27	7.77
WELDING MACHINE OPERATORS AND TENDERS	1,430	1.82	30.91	8.83
SOLDERING AND BRAZING MACHINE SETTERS AND SET-UP OPERATORS	20	0.02	41.27	2.47
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	40	0.05	30.05	1.77
METAL FABRICATORS-STRUCTURAL METAL PRODUCTS	1,390	1.77	45.39	6.01
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	1,540	1.93	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	210	0.26	22.30	5.65
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	680	0.86	18.16	12.72
NONELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	300	0.38	32.59	3.53
NONELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	140	0.17	32.13	2.12
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	120	0.15	18.19	4.24
FURNACE OPERATORS AND TENDERS	90	0.11	14.93	3.18
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	1,400	1.77	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	800	1.01	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	600	0.76	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,660	3.36	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	560	0.71	20.25	12.37

SIC 34 FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	1,170	1.49	18.31	18.02
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	80	0.10	33.02	3.53
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	360	0.45	19.18	6.71
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.02	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	470	0.59	N.A.	N.A.
PRECISION ASSEMBLERS	1,160	1.47	N.A.	N.A.
FITTERS, STRUCTURAL METAL-PRECISION	1,160	1.47	27.08	4.95
OTHER HANDWORKING OCCUPATIONS	12,030	15.32	N.A.	N.A.
WELDERS AND CUTTERS	4,630	5.90	20.11	24.38
GRINDING AND POLISHING WORKERS-HAND	1,150	1.46	19.05	15.90
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	5,510	7.02	17.21	23.67
ALL OTHER HAND WORKERS	740	0.94	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	30	0.03	23.98	2.12
MOTOR VEHICLE OPERATORS	1,190	1.51	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	820	1.04	17.39	17.67
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	370	0.47	28.62	18.37
ALL OTHER TRANSPORTATION AND RELATED WORKERS	130	0.16	19.02	1.77
MATERIAL MOVING EQUIPMENT OPERATORS	1,180	1.49	N.A.	N.A.
CRANE AND TOWER OPERATORS	260	0.33	35.44	5.65
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	720	0.91	20.61	21.55
CONVEYOR OPERATORS AND TENDERS	110	0.14	24.81	2.47
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	90	0.11	23.57	3.18
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,540	5.76	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	390	0.49	31.92	7.42
MACHINE FEEDERS AND OFFBEARERS	260	0.33	25.27	5.30
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,040	1.32	17.21	17.67
HAND PACKERS AND PACKAGERS	720	0.91	28.79	13.78
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,130	2.71	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	330	0.42	N.A.	N.A.

SIC 341 METAL CANS AND SHIPPING CONTAINERS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,910	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	130	4.38	N.A.	N.A.
FINANCIAL MANAGERS	10	0.33	19.51	40.00
INDUSTRIAL PRODUCTION MANAGERS	40	1.35	10.49	70.00
GENERAL MANAGERS AND TOP EXECUTIVES	40	1.35	5.70	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	40	1.33	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.33	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.33	15.32	30.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.33	15.74	50.00
SALES AND RELATED OCCUPATIONS	40	1.34	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	1.01	17.48	40.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	160	5.36	N.A.	N.A.
SECRETARIES	20	0.67	6.45	45.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.67	14.41	50.00
BILLING, COST AND RATE CLERKS	10	0.33	38.91	10.00
GENERAL OFFICE CLERKS	10	0.33	19.52	50.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	1.67	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.33	12.26	30.00
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.33	21.72	30.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	1.01	13.71	50.00
SERVICE OCCUPATIONS	10	0.33	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	10	0.33	10.40	40.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,530	85.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	200	6.77	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.67	8.50	40.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	180	6.10	5.30	90.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	1.35	30.22	15.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	120	4.06	12.44	45.00

SIC 341 METAL CANS AND SHIPPING CONTAINERS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	510	17.27	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	380	12.88	13.93	55.00
MILLWRIGHTS	20	0.67	15.99	10.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	3.72	25.91	40.00
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	80	2.71	N.A.	N.A.
ELECTRICIANS	80	2.71	6.24	60.00
PRECISION PRODUCTION OCCUPATIONS	220	7.43	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.67	14.37	35.00
MACHINISTS	70	2.37	9.41	60.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	10	0.33	33.60	10.00
SHEET METAL OCCUPATIONS	120	4.06	46.13	5.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	220	7.44	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.67	33.74	10.00
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	200	6.77	8.58	35.00
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	40	1.35	N.A.	N.A.
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	40	1.35	46.91	5.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	340	11.50	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	80	2.71	21.51	30.00
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	50	1.69	32.34	30.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	100	3.38	12.05	35.00
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	110	3.72	18.25	20.00
OTHER HANDWORKING OCCUPATIONS	50	1.68	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	20	0.67	38.96	10.00
ALL OTHER HAND WORKERS	30	1.01	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	20	0.67	23.85	15.00
MOTOR VEHICLE OPERATORS	40	1.35	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	40	1.35	26.79	30.00
MATERIAL MOVING EQUIPMENT OPERATORS	290	9.82	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	160	5.42	9.86	65.00
CONVEYOR OPERATORS AND TENDERS	80	2.71	21.25	20.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	50	1.69	23.93	20.00

SIC 341 METAL CANS AND SHIPPING CONTAINERS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	260	8.79	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	110	3.72	20.88	20.00
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	2.37	26.48	25.00
HAND PACKERS AND PACKAGERS	20	0.67	41.29	10.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	2.03	32.60	25.00
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	100	3.38	N.A.	N.A.

SIC 342 CUTLERY, HAND TOOLS, AND HARDWARE
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,920	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	110	5.65	N.A.	N.A.
FINANCIAL MANAGERS	20	1.03	23.43	47.06
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.51	48.94	11.76
INDUSTRIAL PRODUCTION MANAGERS	20	1.03	33.45	41.18
GENERAL MANAGERS AND TOP EXECUTIVES	50	2.57	18.70	88.24
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	90	4.63	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.51	11.20	47.06
ENGINEERS	40	2.06	N.A.	N.A.
MECHANICAL ENGINEERS	20	1.03	29.33	29.41
ALL OTHER ENGINEERS	20	1.03	N.A.	N.A.
ALL OTHER ENGINEERS AND RELATED WORKERS	20	1.03	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	40	2.06	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	1.03	32.32	35.29
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	9.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	1.03	46.81	17.65
SECRETARIES	30	1.54	26.66	58.82
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	1.03	12.28	64.71
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	70	3.60	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	1.03	4.23	35.29
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	1.03	22.15	29.41
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	1.54	16.65	64.71
SERVICE OCCUPATIONS	10	0.51	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,490	76.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	80	4.12	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	80	4.12	11.47	64.71
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	20	1.03	11.80	35.29

SIC 342 CUTLERY, HAND TOOLS, AND HARDWARE
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	50	2.57	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	10	0.51	11.62	17.65
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	2.06	7.68	29.41
PRECISION PRODUCTION OCCUPATIONS	270	13.90	N.A.	N.A.
TOOL AND DIE MAKERS	50	2.57	26.29	47.06
MACHINISTS	40	2.06	35.91	41.18
PATTERN AND MODEL MAKERS-METAL	20	1.03	11.28	11.76
SHEET METAL OCCUPATIONS	160	8.24	38.20	17.65
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	200	10.28	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	2.57	12.68	29.41
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	70	3.60	8.88	29.41
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	1.54	13.47	11.76
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	50	2.57	14.83	35.29
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	100	5.14	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.51	37.69	17.65
FORGING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	2.57	7.59	11.76
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	40	2.06	15.95	17.65
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	10	0.51	N.A.	N.A.
WELDING MACHINE OPERATORS AND TENDERS	10	0.51	29.45	17.65
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	90	4.63	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	60	3.09	10.14	11.76
FURNACE OPERATORS AND TENDERS	30	1.54	7.98	11.76
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	80	4.12	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	60	3.09	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	20	1.03	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	350	18.03	N.A.	N.A.
GRINDING AND POLISHING WORKERS-HAND	160	8.24	13.84	23.53
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	190	9.79	25.74	41.18

SIC 342 CUTLERY, HAND TOOLS, AND HARDWARE
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL MOVING EQUIPMENT OPERATORS	30	1.54	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	1.54	5.57	23.53
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	130	6.68	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	30	1.54	13.78	5.88
HAND PACKERS AND PACKAGERS	70	3.60	12.01	29.41
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	30	1.54	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	80	4.12	N.A.	N.A.

SIC 343 PLUMBING AND HEATING, EXCEPT ELECTRIC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,640	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	110	4.19	N.A.	N.A.
FINANCIAL MANAGERS	20	0.76	26.76	58.33
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.38	28.06	33.33
INDUSTRIAL PRODUCTION MANAGERS	10	0.38	14.43	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	30	1.14	18.08	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	110	4.19	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.38	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.38	22.77	58.33
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.76	10.75	66.67
ENGINEERS	20	0.76	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.76	9.71	58.33
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.76	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.76	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	1.14	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.76	36.10	25.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	360	13.74	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.76	17.99	41.67
ADJUSTMENT CLERKS	30	1.14	16.91	25.00
SECRETARIES	40	1.53	15.07	91.67
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.14	17.48	66.67
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.76	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	20	0.76	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	150	5.73	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	1.14	5.53	66.67
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	1.53	19.26	50.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	80	3.06	10.91	91.67
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	2.68	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.14	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.76	10.79	58.33

SIC 343 PLUMBING AND HEATING, EXCEPT ELECTRIC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,000	76.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	130	4.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.76	13.98	41.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	90	3.44	7.41	83.33
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.76	17.89	8.33
PRECISION INSPECTORS, TESTERS, AND GRADERS	10	0.38	14.68	25.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	2.29	10.52	58.33
MECHANICS, INSTALLERS, AND REPAIRERS	80	3.05	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	60	2.29	16.76	50.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.76	26.08	41.67
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.38	N.A.	N.A.
ELECTRICIANS	10	0.38	20.20	16.67
PRECISION PRODUCTION OCCUPATIONS	250	9.55	N.A.	N.A.
TOOL AND DIE MAKERS	30	1.14	13.31	41.67
MACHINISTS	180	6.89	38.52	66.67
PRECISION FOUNDRY MOLD AND CORE MAKERS	20	0.76	17.06	8.33
ALL OTHER PRECISION WORKERS	20	0.76	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	6.11	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	110	4.21	20.30	33.33
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.76	14.68	16.67
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	30	1.14	15.13	25.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.38	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.38	26.03	33.33
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	40	1.52	N.A.	N.A.
SOLDERING AND BRAZING MACHINE SETTERS AND SET-UP OPERATORS	10	0.38	20.55	33.33
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	30	1.14	16.38	25.00
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	40	1.52	N.A.	N.A.

SIC 343 PLUMBING AND HEATING, EXCEPT ELECTRIC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	10	0.38	36.87	16.67
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.38	44.64	16.67
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.76	14.74	16.67
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	70	2.68	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	70	2.68	34.70	25.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	140	5.36	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	140	5.36	23.10	41.67
OTHER HANDWORKING OCCUPATIONS	560	21.44	N.A.	N.A.
GRINDING AND POLISHING WORKERS-HAND	20	0.76	25.24	16.67
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	480	18.39	11.01	66.67
ALL OTHER HAND WORKERS	60	2.29	N.A.	N.A.
MOTOR VEHICLE OPERATORS	40	1.53	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	40	1.53	21.53	16.67
MATERIAL MOVING EQUIPMENT OPERATORS	40	1.52	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	0.76	44.49	25.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.76	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	170	6.50	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	50	1.91	20.79	33.33
HAND PACKERS AND PACKAGERS	50	1.91	28.74	25.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	2.68	4.77	33.33
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	190	7.27	N.A.	N.A.

SIC 344 FABRICATED STRUCTURAL METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	37,920	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,870	7.53	N.A.	N.A.
FINANCIAL MANAGERS	310	0.81	28.21	40.28
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	60	0.15	23.21	18.06
PURCHASING MANAGERS	100	0.26	22.46	27.78
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	160	0.42	35.27	25.00
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	160	0.42	34.08	27.78
ALL OTHER ADMINISTRATIVE MANAGERS	70	0.18	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	540	1.42	20.40	54.17
GENERAL MANAGERS AND TOP EXECUTIVES	1,390	3.66	10.99	76.39
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	3,130	8.19	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	190	0.50	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	190	0.50	28.14	25.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	290	0.76	19.24	44.44
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	30	0.07	30.51	12.50
COST ESTIMATORS	540	1.42	20.32	40.28
ALL OTHER MANAGEMENT SUPPORT WORKERS	110	0.29	N.A.	N.A.
ENGINEERS	260	0.67	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	30	0.07	39.00	8.33
MECHANICAL ENGINEERS	110	0.29	31.33	11.11
ALL OTHER ENGINEERS	120	0.31	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	1,530	4.02	N.A.	N.A.
DRAFTERS	1,360	3.58	19.71	48.61
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	170	0.44	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	90	0.23	N.A.	N.A.
COMPUTER PROGRAMMERS	70	0.18	46.21	16.67
COMPUTER PROGRAMMER AIDES	20	0.05	47.35	5.56
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	90	0.23	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,070	2.81	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	160	0.42	31.20	18.06
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	640	1.68	23.43	38.89
ALL OTHER SALES AND RELATED WORKERS	270	0.71	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,630	9.47	N.A.	N.A.

SIC 344 FABRICATED STRUCTURAL METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	0.47	29.74	27.78
ADJUSTMENT CLERKS	110	0.29	35.92	15.28
SECRETARIES	790	2.08	16.02	59.72
RECEPTIONISTS AND INFORMATION CLERKS	60	0.15	34.95	12.50
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	30	0.07	34.49	12.50
FILE CLERKS	50	0.13	47.55	9.72
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	60	0.15	39.53	8.33
PROCUREMENT CLERKS	40	0.10	37.72	9.72
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	460	1.21	22.41	45.83
PAYROLL AND TIMEKEEPING CLERKS	100	0.26	28.16	23.61
BILLING, COST AND RATE CLERKS	100	0.26	33.68	18.06
GENERAL OFFICE CLERKS	500	1.31	28.04	33.33
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	100	0.25	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	60	0.15	30.47	13.89
DATA ENTRY KEYERS-EXCEPT COMPOSING	40	0.10	34.36	11.11
SWITCHBOARD OPERATORS	70	0.18	25.35	22.22
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	840	2.20	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	260	0.68	23.31	33.33
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	260	0.68	23.60	29.17
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	320	0.84	21.56	40.28
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	140	0.36	N.A.	N.A.
SERVICE OCCUPATIONS	510	1.33	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.02	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	350	0.92	33.13	33.33
ALL OTHER SERVICE WORKERS	150	0.39	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	26,710	70.25	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,470	3.86	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,200	3.16	12.17	66.67
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	50	0.13	29.58	12.50
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	80	0.21	45.74	9.72
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	140	0.36	N.A.	N.A.

SIC 344 FABRICATED STRUCTURAL METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION INSPECTORS, TESTERS, AND GRADERS	70	0.18	36.35	8.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	260	0.68	26.71	29.17
MECHANICS, INSTALLERS, AND REPAIRERS	750	1.96	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	280	0.73	21.47	26.39
MAINTENANCE REPAIRERS-GENERAL UTILITY	340	0.89	25.46	27.78
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	80	0.21	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	50	0.13	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	400	1.05	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	300	0.79	N.A.	N.A.
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	100	0.26	45.66	8.33
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	250	0.65	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	5,230	13.78	N.A.	N.A.
TOOL AND DIE MAKERS	140	0.36	42.03	16.67
MACHINISTS	660	1.74	43.11	25.00
PRECISION LAYOUT WORKERS-METAL	440	1.16	31.32	13.89
SHEET METAL OCCUPATIONS	3,170	8.36	27.86	36.11
ALL OTHER PRECISION METAL WORKERS	820	2.16	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	210	0.55	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	210	0.55	42.42	9.72
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	1,900	5.00	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	320	0.84	25.36	29.17
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	130	0.34	35.07	12.50
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	1,450	3.82	31.33	23.61
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	2,570	6.76	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	450	1.18	44.47	15.28
WELDING MACHINE OPERATORS AND TENDERS	870	2.29	34.05	16.67
METAL FABRICATORS-STRUCTURAL METAL PRODUCTS	1,250	3.29	46.50	15.28
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	1,390	3.66	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	870	2.29	N.A.	N.A.

SIC 344 FABRICATED STRUCTURAL METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	520	1.37	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,120	2.93	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	280	0.73	31.23	15.28
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	560	1.47	33.74	19.44
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	280	0.73	N.A.	N.A.
PRECISION ASSEMBLERS	1,060	2.79	N.A.	N.A.
FITTERS, STRUCTURAL METAL-PRECISION	1,060	2.79	29.22	15.28
OTHER HANDWORKING OCCUPATIONS	5,910	15.58	N.A.	N.A.
WELDERS AND CUTTERS	3,660	9.65	22.85	44.44
GRINDING AND POLISHING WORKERS-HAND	380	1.00	42.68	16.67
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,460	3.85	30.17	27.78
ALL OTHER HAND WORKERS	410	1.08	N.A.	N.A.
MOTOR VEHICLE OPERATORS	880	2.31	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	640	1.68	21.81	33.33
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	240	0.63	42.81	18.06
MATERIAL MOVING EQUIPMENT OPERATORS	440	1.15	N.A.	N.A.
CRANE AND TOWER OPERATORS	180	0.47	49.07	9.72
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	240	0.63	33.72	18.06
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	20	0.05	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,440	6.42	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	310	0.81	39.64	16.67
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	500	1.31	26.18	22.22
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,630	4.30	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	360	0.94	N.A.	N.A.

SIC 345 SCREW MACHINE PRODUCTS, BOLTS, ETC.
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,780	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	140	7.85	N.A.	N.A.
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	10	0.56	23.33	12.00
INDUSTRIAL PRODUCTION MANAGERS	20	1.12	13.12	32.00
GENERAL MANAGERS AND TOP EXECUTIVES	70	3.93	10.09	88.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	60	3.36	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	10	0.56	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	10	0.56	23.63	20.00
ENGINEERS	20	1.12	N.A.	N.A.
MECHANICAL ENGINEERS	10	0.56	15.98	20.00
ALL OTHER ENGINEERS	10	0.56	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	110	6.17	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	50	2.80	20.25	40.00
ALL OTHER SALES AND RELATED WORKERS	60	3.37	28.22	12.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	320	17.94	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	1.12	47.47	12.00
SECRETARIES	40	2.24	18.94	28.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.68	16.50	52.00
GENERAL OFFICE CLERKS	20	1.12	27.25	28.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	1.12	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	20	1.12	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	130	7.29	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	1.12	12.73	16.00
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	30	1.68	19.64	28.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	80	4.49	19.18	68.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	3.37	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,150	64.52	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	50	2.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	50	2.80	19.98	40.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	20	1.12	9.94	8.00

SIC 345 SCREW MACHINE PRODUCTS, BOLTS, ETC.
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.56	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	40	2.24	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	40	2.24	21.13	24.00
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	10	0.56	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	280	15.72	N.A.	N.A.
TOOL AND DIE MAKERS	20	1.12	16.48	20.00
MACHINISTS	230	12.92	21.33	60.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	1.12	24.11	28.00
ALL OTHER PRECISION METAL WORKERS	10	0.56	49.49	4.00
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	250	14.03	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.56	29.29	20.00
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	3.37	27.19	32.00
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	40	2.24	47.34	16.00
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	1.12	32.31	20.00
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	120	6.74	30.16	28.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	100	5.61	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	100	5.61	13.04	16.00
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	1.12	N.A.	N.A.
NONELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	20	1.12	0.00	4.00
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	140	7.86	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	60	3.37	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	80	4.49	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	60	3.37	N.A.	N.A.
ALL OTHER HAND WORKERS	60	3.37	N.A.	N.A.
MOTOR VEHICLE OPERATORS	20	1.12	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	1.12	32.14	24.00
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	110	6.17	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	110	6.17	N.A.	N.A.

SIC 346 METAL FORGINGS AND STAMPINGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,410	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	240	5.41	N.A.	N.A.
FINANCIAL MANAGERS	30	0.68	16.46	54.17
PURCHASING MANAGERS	20	0.45	24.38	20.83
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.45	22.25	20.83
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	10	0.22	41.97	12.50
INDUSTRIAL PRODUCTION MANAGERS	50	1.13	19.04	58.33
GENERAL MANAGERS AND TOP EXECUTIVES	80	1.81	9.50	91.67
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.45	37.02	12.50
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	330	7.47	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.68	12.00	33.33
COST ESTIMATORS	30	0.68	25.97	29.17
ENGINEERS	120	2.72	N.A.	N.A.
ALL OTHER ENGINEERS	120	2.72	0.00	4.17
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	70	1.58	N.A.	N.A.
DRAFTERS	20	0.45	16.35	25.00
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	50	1.13	N.A.	N.A.
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	80	1.81	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	60	1.36	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	0.68	31.73	20.83
ALL OTHER SALES AND RELATED WORKERS	30	0.68	47.21	12.50
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	430	9.72	N.A.	N.A.
ADJUSTMENT CLERKS	20	0.45	10.87	16.67
SECRETARIES	40	0.90	17.62	37.50
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.45	26.56	29.17
GENERAL OFFICE CLERKS	90	2.04	10.76	54.17
SWITCHBOARD OPERATORS	10	0.22	12.98	20.83
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	2.26	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	0.90	18.62	41.67
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	1.36	13.20	62.50
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	150	3.40	N.A.	N.A.
SERVICE OCCUPATIONS	40	0.90	N.A.	N.A.

SIC 346 METAL FORGINGS AND STAMPINGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PROTECTIVE SERVICE WORKERS	10	0.22	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	0.68	23.02	33.33
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,310	74.93	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	200	4.53	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	200	4.53	7.58	62.50
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	1.58	19.37	50.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	170	3.85	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	220	4.97	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	0.90	34.37	29.17
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	1.81	16.23	50.00
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	20	0.45	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	80	1.81	0.00	4.17
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.68	N.A.	N.A.
ALL OTHER PLUMBING AND RELATED WORKERS	30	0.68	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	470	10.64	N.A.	N.A.
TOOL AND DIE MAKERS	220	4.98	14.22	50.00
MACHINISTS	220	4.98	16.16	45.83
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	30	0.68	22.81	12.50
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	3.62	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	1.13	26.27	25.00
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.68	31.02	12.50
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	30	0.68	41.40	16.67
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	1.13	36.08	16.67
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	810	18.35	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	210	4.76	20.53	33.33
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.68	39.41	16.67

SIC 346 METAL FORGINGS AND STAMPINGS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FORGING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	160	3.62	29.51	16.67
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	410	9.29	22.10	45.83
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	360	8.16	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	90	2.04	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	270	6.12	0.00	4.17
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	50	1.13	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	50	1.13	45.22	16.67
OTHER HANDWORKING OCCUPATIONS	300	6.79	N.A.	N.A.
WELDERS AND CUTTERS	130	2.94	20.25	37.50
GRINDING AND POLISHING WORKERS-HAND	90	2.04	46.87	16.67
ALL OTHER HAND WORKERS	80	1.81	44.77	8.33
MOTOR VEHICLE OPERATORS	30	0.67	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.45	26.46	20.83
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.22	33.06	20.83
MATERIAL MOVING EQUIPMENT OPERATORS	70	1.58	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	0.68	29.93	33.33
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	40	0.90	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	250	5.66	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	30	0.68	22.38	12.50
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	0.90	16.00	16.67
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	180	4.08	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	2.72	N.A.	N.A.

SIC 347 METAL SERVICES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	5,260	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	430	8.11	N.A.	N.A.
FINANCIAL MANAGERS	60	1.13	21.00	28.21
INDUSTRIAL PRODUCTION MANAGERS	90	1.70	14.79	37.18
GENERAL MANAGERS AND TOP EXECUTIVES	260	4.91	11.22	78.21
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	110	2.04	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.37	35.65	10.26
COST ESTIMATORS	20	0.37	33.32	5.13
ENGINEERS	20	0.37	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.37	28.40	8.97
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.18	N.A.	N.A.
DRAFTERS	10	0.18	41.97	7.69
SALES AND RELATED OCCUPATIONS	150	2.81	N.A.	N.A.
SALES REPRESENTATIVES- SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	30	0.56	21.12	10.26
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	110	2.07	22.17	28.21
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	610	11.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.37	18.35	8.97
SECRETARIES	140	2.64	14.09	46.15
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	100	1.89	13.80	42.31
GENERAL OFFICE CLERKS	120	2.26	19.59	35.90
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	190	3.57	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.56	38.67	10.26
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.37	32.10	8.97
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	140	2.64	16.17	41.03
SERVICE OCCUPATIONS	50	0.94	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	50	0.94	22.46	21.79
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,910	73.75	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	260	4.91	N.A.	N.A.

SIC 347 METAL SERVICES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	260	4.91	8.98	66.67
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	150	2.83	24.35	25.64
MECHANICS, INSTALLERS, AND REPAIRERS	160	3.01	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	0.75	21.27	14.10
MAINTENANCE REPAIRERS-GENERAL UTILITY	120	2.26	13.37	30.77
PRECISION PRODUCTION OCCUPATIONS	170	3.20	N.A.	N.A.
MACHINISTS	90	1.70	29.93	10.26
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	30	0.56	46.38	3.85
ALL OTHER PRECISION METAL WORKERS	50	0.94	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	140	2.64	N.A.	N.A.
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	140	2.64	30.59	11.54
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.37	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.37	45.18	3.85
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	990	18.70	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	190	3.59	24.15	16.67
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	400	7.56	16.59	34.62
NONELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	280	5.29	33.49	11.54
NONELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	120	2.26	37.28	6.41
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	100	1.89	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	100	1.89	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	580	10.95	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	100	1.89	39.31	15.38
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	360	6.80	22.29	25.64
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	50	0.94	34.48	6.41

SIC 347 METAL SERVICES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	70	1.32	N.A.	N.A.
PRECISION ASSEMBLERS	20	0.37	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	20	0.37	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	530	9.99	N.A.	N.A.
WELDERS AND CUTTERS	30	0.56	25.54	10.26
GRINDING AND POLISHING WORKERS-HAND	220	4.15	28.78	19.23
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	150	2.83	39.21	10.26
ALL OTHER HAND WORKERS	130	2.45	34.60	7.69
PLANT AND SYSTEM OCCUPATIONS	10	0.18	46.70	3.85
MOTOR VEHICLE OPERATORS	80	1.50	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.37	26.23	8.97
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	60	1.13	28.52	23.08
MATERIAL MOVING EQUIPMENT OPERATORS	100	1.88	N.A.	N.A.
CRANE AND TOWER OPERATORS	20	0.37	34.31	3.85
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	80	1.51	19.16	16.67
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	530	10.01	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	40	0.75	42.57	3.85
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	1.89	31.57	11.54
HAND PACKERS AND PACKAGERS	100	1.89	30.00	14.10
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	290	5.48	23.15	17.95
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	70	1.32	N.A.	N.A.

SIC 348 ORDNANCE AND ACCESSORIES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,690	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	280	5.91	N.A.	N.A.
FINANCIAL MANAGERS	30	0.63	14.77	71.43
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.42	16.48	28.57
PURCHASING MANAGERS	10	0.21	20.31	28.57
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.84	1.41	28.57
INDUSTRIAL PRODUCTION MANAGERS	50	1.06	17.41	42.86
GENERAL MANAGERS AND TOP EXECUTIVES	100	2.12	4.73	85.71
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.42	23.19	14.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,070	22.59	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	60	1.26	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	0.84	4.63	28.57
BUDGET ANALYSTS	20	0.42	12.45	28.57
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.63	1.61	28.57
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.42	6.71	28.57
COST ESTIMATORS	60	1.27	16.84	14.29
ALL OTHER MANAGEMENT SUPPORT WORKERS	120	2.54	N.A.	N.A.
ENGINEERS	310	6.54	N.A.	N.A.
CIVIL ENGINEERS-INCLUDING TRAFFIC	30	0.63	2.44	28.57
ELECTRICAL AND ELECTRONIC ENGINEERS	40	0.84	11.06	28.57
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	40	0.84	1.07	28.57
SAFETY ENGINEERS-EXCEPT MINING	30	0.63	3.70	28.57
MECHANICAL ENGINEERS	70	1.48	6.19	42.86
ALL OTHER ENGINEERS	100	2.12	16.81	14.29
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	280	5.92	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	70	1.48	15.68	28.57
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.42	22.22	14.29
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	50	1.06	9.54	28.57
DRAFTERS	20	0.42	8.40	28.57
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	120	2.54	11.85	28.57
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	100	2.11	N.A.	N.A.
PHYSICAL SCIENTISTS	80	1.69	8.57	28.57
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.42	17.14	14.29
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	1.27	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	50	1.06	13.77	28.57
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	10	0.21	N.A.	N.A.

SIC 348 ORDNANCE AND ACCESSORIES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.21	4.74	28.57
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	20	0.42	15.81	28.57
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	560	11.84	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	1.27	10.25	28.57
SECRETARIES	30	0.63	4.19	71.43
STENOGRAPHERS	40	0.84	9.94	28.57
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.42	9.75	28.57
BILLING, COST AND RATE CLERKS	20	0.42	7.08	28.57
GENERAL OFFICE CLERKS	90	1.91	2.28	42.86
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.21	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	10	0.21	7.84	28.57
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	250	5.30	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	180	3.82	13.24	28.57
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.42	23.19	14.29
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	1.06	3.00	57.14
SERVICE OCCUPATIONS	560	11.88	N.A.	N.A.
GUARDS AND WATCH GUARDS	50	1.06	22.74	14.29
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	60	1.27	2.53	28.57
ALL OTHER SERVICE WORKERS	450	9.55	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,220	46.99	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	300	6.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.42	1.28	28.57
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	70	1.48	10.96	28.57
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	140	2.97	2.35	42.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	40	0.84	16.67	14.29
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	30	0.63	16.50	14.29
PRECISION INSPECTORS, TESTERS, AND GRADERS	100	2.12	22.17	28.57
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	170	3.60	16.74	14.29

SIC 348 ORDNANCE AND ACCESSORIES, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	130	2.74	N.A.	N.A.
MILLWRIGHTS	50	1.06	16.83	28.57
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	0.63	17.24	28.57
AUTOMOTIVE MECHANICS	40	0.84	0.54	28.57
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	10	0.21	17.15	14.29
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	190	4.01	N.A.	N.A.
CARPENTERS	30	0.63	5.10	28.57
ELECTRICIANS	80	1.69	6.67	28.57
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	20	0.42	12.14	28.57
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	60	1.27	11.11	28.57
PRECISION PRODUCTION OCCUPATIONS	140	2.95	N.A.	N.A.
TOOL AND DIE MAKERS	80	1.69	9.42	42.86
MACHINISTS	20	0.42	18.65	85.71
SHEET METAL OCCUPATIONS	20	0.42	1.28	28.57
ALL OTHER PRECISION METAL WORKERS	20	0.42	23.19	14.29
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.21	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	10	0.21	25.83	28.57
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.21	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	10	0.21	17.13	14.29
OTHER HANDWORKING OCCUPATIONS	920	19.53	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	920	19.53	15.06	57.14
MOTOR VEHICLE OPERATORS	40	0.84	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	40	0.84	22.55	14.29
ALL OTHER TRANSPORTATION AND RELATED WORKERS	120	2.54	15.66	28.57
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.21	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	10	0.21	23.20	14.29
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	10	0.21	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	10	0.21	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	70	1.48	N.A.	N.A.

SIC 349 MISC. FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	16,840	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	990	5.84	N.A.	N.A.
FINANCIAL MANAGERS	130	0.77	25.20	64.29
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	40	0.23	49.81	32.14
ALL OTHER ADMINISTRATIVE MANAGERS	180	1.06	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	130	0.77	35.28	53.57
GENERAL MANAGERS AND TOP EXECUTIVES	480	2.84	32.01	78.57
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	880	5.15	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	130	0.77	N.A.	N.A.
ALL OTHER FINANCIAL SPECIALISTS	130	0.77	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	140	0.82	37.26	50.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	10	0.05	46.35	10.71
ALL OTHER MANAGEMENT SUPPORT WORKERS	100	0.59	N.A.	N.A.
ENGINEERS	240	1.41	N.A.	N.A.
MECHANICAL ENGINEERS	160	0.94	47.05	32.14
ALL OTHER ENGINEERS	80	0.47	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	150	0.88	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	150	0.88	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	0.34	N.A.	N.A.
PROGRAMMERS-NUMERICAL, TOOL, AND PROCESS CONTROL	20	0.11	43.67	10.71
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	40	0.23	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	670	3.96	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	230	1.36	49.73	42.86
ALL OTHER SALES AND RELATED WORKERS	440	2.60	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,910	11.26	N.A.	N.A.
ADJUSTMENT CLERKS	80	0.47	46.81	17.86
SECRETARIES	250	1.48	30.36	64.29
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	200	1.18	28.53	60.71
GENERAL OFFICE CLERKS	200	1.18	35.34	42.86
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	0.35	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	60	0.35	N.A.	N.A.
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	30	0.17	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	590	3.47	N.A.	N.A.

SIC 349 MISC. FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	100	0.59	33.67	32.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	180	1.06	33.64	46.43
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	290	1.71	39.62	42.86
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.11	49.01	7.14
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	500	2.96	N.A.	N.A.
SERVICE OCCUPATIONS	150	0.87	N.A.	N.A.
ALL OTHER PROTECTIVE SERVICE WORKERS	50	0.29	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.47	40.30	21.43
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	12,240	72.39	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	780	4.60	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	40	0.23	42.34	32.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	600	3.55	24.43	64.29
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	140	0.82	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	260	1.54	36.06	42.86
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.05	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	590	3.48	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	310	1.83	30.12	50.00
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	280	1.65	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	50	0.29	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	2,200	13.03	N.A.	N.A.
MACHINISTS	1,280	7.58	41.36	64.29
ALL OTHER PRECISION METAL WORKERS	920	5.45	N.A.	N.A.
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	310	1.83	N.A.	N.A.
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	310	1.83	49.30	14.29
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	110	0.65	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	110	0.65	49.07	7.14
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	3,390	20.08	N.A.	N.A.

SIC 349 MISC. FABRICATED METAL PRODUCTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	1,960	11.61	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	1,430	8.47	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	230	1.35	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	140	0.82	40.15	10.71
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	90	0.53	N.A.	N.A.
PRECISION ASSEMBLERS	80	0.47	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	80	0.47	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	3,350	19.83	N.A.	N.A.
GRINDING AND POLISHING WORKERS-HAND	290	1.71	43.70	25.00
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	2,220	13.15	37.04	50.00
ALL OTHER HAND WORKERS	840	4.97	N.A.	N.A.
MOTOR VEHICLE OPERATORS	40	0.23	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	40	0.23	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	170	1.00	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	170	1.00	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	640	3.79	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	260	1.54	43.94	25.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	380	2.25	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 35 - INDUSTRIAL AND COMMERCIAL MACHINERY AND COMPUTER EQUIPMENT

This major industry group includes establishments engaged in manufacturing industrial and commercial machinery and equipment and computers. Included are establishments that manufacture engines and turbines; farm and garden machinery; construction, mining, and oil field machinery; elevators and conveying equipment; hoists, cranes, monorails, and industrial trucks and tractors; metalworking machinery; special industry machinery; general industrial machinery; computer and peripheral equipment and office machinery; and refrigeration and service industry machinery.

SIC 352 - FARM AND GARDEN MACHINERY AND EQUIPMENT

Establishments that are primarily engaged in manufacturing farm machinery and equipment; and lawn and garden tractors and home lawn and garden equipment are in this industry.

SIC 354 - METALWORKING MACHINERY AND EQUIPMENT

This industry group includes establishments primarily engaged in manufacturing machine tools, metal cutting types; machine tools, metal forming types; industrial patterns; special dies and tools, die sets, jigs and fixtures, and industrial molds; cutting tools, machine tool accessories, and machinists' precision measuring devices; power-driven handtools; rolling mill machinery and equipment; electric and gas welding and soldering equipment; and metalworking machinery, not elsewhere classified.

SIC 355 - SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

This industry group includes establishments primarily engaged in manufacturing textile machinery; woodworking machinery; paper industries machinery; printing trades machinery and equipment; food products machinery; and special industry machinery, not elsewhere classified.

SIC 357 - COMPUTER AND OFFICE EQUIPMENT

Establishments that are primarily engaged in manufacturing electronic computers; computer storage devices; computer terminals; computer peripheral equipment, not elsewhere classified; calculating and accounting machines, except electronic computers; and office machines, not elsewhere classified, are in this industry.

SIC 358 - REFRIGERATION AND SERVICE INDUSTRY MACHINERY

This industry group includes establishments primarily engaged in manufacturing automatic vending machines; commercial laundry, drycleaning, and pressing machines; air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment; measuring and dispensing pumps; and service industry machinery, not elsewhere classified.

SIC 359 - MISCELLANEOUS INDUSTRIAL AND COMMERCIAL MACHINERY AND EQUIPMENT

Establishments that are primarily engaged in manufacturing carburetors, pistons, piston rings, and valves; fluid power cylinders and actuators; fluid power pumps and motors; scales and balances, except laboratory; and industrial and commercial machinery and equipment, not elsewhere classified, are in this industry.

SIC 35 INDUSTRIAL MACHINERY AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	108,150	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	8,780	8.07	N.A.	N.A.
FINANCIAL MANAGERS	970	0.89	16.53	41.67
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	270	0.24	28.22	18.61
PURCHASING MANAGERS	260	0.24	14.32	20.00
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	730	0.67	30.00	18.89
ADMINISTRATIVE SERVICES MANAGERS	210	0.19	40.74	9.44
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	1,280	1.18	9.92	27.22
INDUSTRIAL PRODUCTION MANAGERS	1,340	1.23	10.38	46.39
GENERAL MANAGERS AND TOP EXECUTIVES	3,220	2.97	12.04	83.61
ALL OTHER MANAGERS AND ADMINISTRATORS	500	0.46	35.44	11.39
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	16,670	15.26	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	1,010	0.92	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	610	0.56	23.40	25.28
ALL OTHER FINANCIAL SPECIALISTS	400	0.36	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	820	0.75	11.29	38.61
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	320	0.29	29.60	9.72
COST ESTIMATORS	290	0.26	29.03	14.72
ALL OTHER MANAGEMENT SUPPORT WORKERS	430	0.39	20.95	8.06
ENGINEERS	5,770	5.31	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	1,260	1.16	11.17	11.11
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	810	0.74	27.40	15.83
MECHANICAL ENGINEERS	1,250	1.15	37.30	23.89
ALL OTHER ENGINEERS	2,450	2.26	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	3,980	3.66	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	1,810	1.67	6.93	8.89
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	250	0.23	44.47	6.39
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	600	0.55	30.98	9.17
DRAFTERS	1,130	1.04	26.67	30.28
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	190	0.17	N.A.	N.A.
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	80	0.07	N.A.	N.A.
PHYSICAL SCIENTISTS	80	0.07	26.21	1.11
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.03	N.A.	N.A.
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	40	0.03	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	2,900	2.67	N.A.	N.A.

SIC 35 INDUSTRIAL MACHINERY AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	760	0.70	15.83	10.00
COMPUTER PROGRAMMERS	2,040	1.88	4.82	18.89
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	100	0.09	N.A.	N.A.
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	60	0.04	N.A.	N.A.
OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS-EXCEPT COMPUTER RELATED	40	0.03	43.03	1.67
MATHEMATICAL SCIENTISTS	20	0.01	42.99	0.56
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	40	0.03	37.95	5.83
WRITERS AND EDITORS	60	0.05	25.17	1.11
TECHNICAL WRITERS	180	0.16	22.56	5.83
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	690	0.63	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	4,240	3.90	N.A.	N.A.
SALES ENGINEERS	530	0.48	23.29	11.67
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	1,020	0.94	47.62	15.28
ALL OTHER SALES AND RELATED WORKERS	2,690	2.48	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	15,050	13.78	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,530	1.41	26.37	36.94
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	370	0.34	N.A.	N.A.
SECRETARIES	2,940	2.71	10.17	56.11
RECEPTIONISTS AND INFORMATION CLERKS	160	0.14	26.60	12.22
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	90	0.08	34.84	5.56
TYPISTS-WORD PROCESSING EQUIPMENT	100	0.09	49.96	6.11
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	180	0.16	29.45	10.00
FILE CLERKS	100	0.09	39.50	7.50
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	430	0.39	25.31	14.44
PROCUREMENT CLERKS	220	0.20	33.23	10.83
STATISTICAL CLERKS	40	0.03	33.36	2.22
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	1,750	1.61	14.15	48.89
PAYROLL AND TIMEKEEPING CLERKS	240	0.22	15.95	17.22
BILLING, COST AND RATE CLERKS	160	0.14	42.65	9.17
GENERAL OFFICE CLERKS	2,320	2.14	24.01	35.28
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	540	0.48	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	270	0.24	18.03	11.67
DATA ENTRY KEYERS-EXCEPT COMPOSING	270	0.24	47.29	10.28
SWITCHBOARD OPERATORS	160	0.14	30.35	14.72

SIC 35 INDUSTRIAL MACHINERY AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	3,590	3.29	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	1,140	1.05	13.87	24.72
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.01	13.93	1.67
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	1,120	1.03	21.71	29.44
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	1,100	1.01	22.08	39.72
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	210	0.19	42.64	4.44
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	130	0.12	N.A.	N.A.
SERVICE OCCUPATIONS	1,120	1.02	N.A.	N.A.
GUARDS AND WATCH GUARDS	240	0.22	23.84	5.56
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	770	0.71	13.26	34.44
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	20	0.01	48.87	1.67
ALL OTHER SERVICE WORKERS	90	0.08	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	10	0.00	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	62,280	57.24	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	3,990	3.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	370	0.34	23.22	13.33
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	130	0.12	38.14	3.06
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	2,960	2.73	8.54	57.78
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	530	0.48	N.A.	N.A.
PRECISION INSPECTORS, TESTERS, AND GRADERS	980	0.90	13.90	21.39
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,640	1.51	14.74	17.22
MECHANICS, INSTALLERS, AND REPAIRERS	2,860	2.61	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,200	1.10	23.87	21.67
MAINTENANCE REPAIRERS-GENERAL UTILITY	820	0.75	14.10	24.17
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	160	0.14	N.A.	N.A.
DATA PROCESSING EQUIPMENT REPAIRERS	130	0.12	7.06	1.67
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	70	0.06	43.56	1.94

SIC 35 INDUSTRIAL MACHINERY AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	480	0.44	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	50	0.04	N.A.	N.A.
CARPENTERS	50	0.04	36.95	2.22
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	800	0.73	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	11,910	10.96	N.A.	N.A.
TOOL AND DIE MAKERS	860	0.79	16.28	17.50
MACHINISTS	9,270	8.56	13.88	65.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	410	0.37	32.04	13.06
SHEET METAL OCCUPATIONS	980	0.90	34.93	11.39
ALL OTHER PRECISION METAL WORKERS	140	0.12	N.A.	N.A.
PATTERN AND MODEL MAKERS-WOOD	190	0.17	45.65	3.06
ALL OTHER PRECISION WORKERS	60	0.05	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	4,800	4.41	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	1,480	1.36	24.86	21.11
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	570	0.52	34.09	14.17
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	500	0.46	27.76	10.28
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	890	0.82	28.73	15.28
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	1,360	1.25	44.82	15.28
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	1,400	1.27	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	140	0.12	39.64	5.00
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	600	0.55	34.74	8.61
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	660	0.60	31.49	8.61
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	570	0.52	N.A.	N.A.
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	570	0.52	25.72	6.11
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	570	0.52	N.A.	N.A.
SOLDERING AND BRAZING MACHINE SETTERS AND SET-UP OPERATORS	90	0.08	29.32	1.67
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	480	0.44	32.32	2.78

SIC 35 INDUSTRIAL MACHINERY AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	5,200	4.80	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	1,420	1.31	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	3,780	3.49	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	1,670	1.52	N.A.	N.A.
ELECTRONIC SEMICONDUCTOR PROCESSORS	10	0.00	0.00	0.28
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	80	0.07	42.28	2.78
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	610	0.56	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	970	0.89	N.A.	N.A.
PRECISION ASSEMBLERS	3,510	3.23	N.A.	N.A.
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	1,130	1.04	5.07	2.22
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	720	0.66	32.51	5.00
ALL OTHER PRECISION ASSEMBLERS-METAL	1,660	1.53	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	18,120	16.71	N.A.	N.A.
MACHINE ASSEMBLERS	1,550	1.43	25.39	8.06
ELECTRICAL AND ELECTRONIC ASSEMBLERS	3,930	3.63	14.06	6.94
WELDERS AND CUTTERS	4,120	3.80	25.59	34.44
SOLDERERS AND BRAZERS	700	0.64	33.98	2.22
GRINDING AND POLISHING WORKERS-HAND	540	0.49	27.26	13.33
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	6,820	6.30	17.57	26.94
ALL OTHER HAND WORKERS	460	0.42	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	10	0.00	27.87	0.83
MOTOR VEHICLE OPERATORS	180	0.16	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	100	0.09	27.23	5.83
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	80	0.07	31.15	7.22
MATERIAL MOVING EQUIPMENT OPERATORS	1,060	0.97	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	790	0.73	30.45	11.11
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	270	0.24	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,940	2.70	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,150	1.06	33.32	15.28
HAND PACKERS AND PACKAGERS	340	0.31	44.89	7.50
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,450	1.33	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	20	0.01	N.A.	N.A.

SIC 352 FARM AND GARDEN MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,460	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	100	4.08	N.A.	N.A.
GENERAL MANAGERS AND TOP EXECUTIVES	60	2.45	39.16	76.47
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	80	3.24	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.40	42.58	29.41
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	30	1.21	N.A.	N.A.
DRAFTERS	20	0.81	24.36	47.06
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.40	11.47	5.88
SALES AND RELATED OCCUPATIONS	100	4.08	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	70	2.86	32.68	29.41
ALL OTHER SALES AND RELATED WORKERS	30	1.22	13.74	17.65
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	270	11.01	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30	1.22	21.17	47.06
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	1.63	41.91	47.06
GENERAL OFFICE CLERKS	60	2.45	23.50	47.06
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	90	3.67	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	2.04	12.59	41.18
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.63	35.91	47.06
SERVICE OCCUPATIONS	40	1.63	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	1.63	2.77	41.18
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,870	76.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	70	2.86	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	70	2.86	13.56	58.82
PRECISION INSPECTORS, TESTERS, AND GRADERS	20	0.81	0.00	5.88
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.40	6.68	11.76
MECHANICS, INSTALLERS, AND REPAIRERS	40	1.62	N.A.	N.A.

SIC 352 FARM AND GARDEN MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.81	32.48	17.65
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	20	0.81	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.40	N.A.	N.A.
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	10	0.40	12.01	11.76
PRECISION PRODUCTION OCCUPATIONS	130	5.30	N.A.	N.A.
MACHINISTS	20	0.81	27.55	29.41
SHEET METAL OCCUPATIONS	50	2.04	28.56	17.65
ALL OTHER PRECISION METAL WORKERS	60	2.45	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	6.52	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	1.63	41.20	35.29
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.81	11.60	5.88
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	2.45	0.00	5.88
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	40	1.63	23.56	17.65
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	70	2.85	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	1.63	0.00	5.88
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	30	1.22	22.55	23.53
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	160	6.53	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	70	2.86	8.81	29.41
SOLDERING AND BRAZING MACHINE SETTERS AND SET-UP OPERATORS	20	0.81	11.60	5.88
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	70	2.86	11.44	5.88
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	40	1.63	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	40	1.63	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.40	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	10	0.40	N.A.	N.A.
PRECISION ASSEMBLERS	70	2.86	N.A.	N.A.
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	70	2.86	10.57	5.88
OTHER HANDWORKING OCCUPATIONS	890	36.45	N.A.	N.A.
MACHINE ASSEMBLERS	30	1.22	22.20	17.65
WELDERS AND CUTTERS	350	14.34	49.08	64.71

SIC 352 FARM AND GARDEN MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	480	19.67	31.51	47.06
ALL OTHER HAND WORKERS	30	1.22	0.00	5.88
MOTOR VEHICLE OPERATORS	10	0.40	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	10	0.40	11.78	11.76
MATERIAL MOVING EQUIPMENT OPERATORS	30	1.22	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	1.22	14.08	11.76
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	60	2.44	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	0.81	24.59	23.53
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	40	1.63	9.40	23.53
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	90	3.68	N.A.	N.A.

SIC 354 METALWORKING MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,230	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	440	10.40	N.A.	N.A.
FINANCIAL MANAGERS	40	0.94	25.77	21.74
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.71	39.18	4.35
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	0.71	28.33	13.04
INDUSTRIAL PRODUCTION MANAGERS	40	0.94	25.14	32.61
GENERAL MANAGERS AND TOP EXECUTIVES	260	6.16	13.01	82.61
ALL OTHER MANAGERS AND ADMINISTRATORS	20	0.47	33.04	6.52
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	280	6.59	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.47	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.47	28.63	21.74
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.47	15.38	19.57
COST ESTIMATORS	10	0.23	33.67	8.70
ENGINEERS	40	0.94	N.A.	N.A.
MECHANICAL ENGINEERS	40	0.94	18.35	23.91
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	110	2.60	N.A.	N.A.
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	60	1.42	44.49	2.17
DRAFTERS	50	1.18	25.79	23.91
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	40	0.94	N.A.	N.A.
COMPUTER PROGRAMMERS	20	0.47	36.88	8.70
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	20	0.47	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	140	3.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	10	0.23	29.47	13.04
SALES ENGINEERS	30	0.71	42.95	6.52
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	40	0.94	25.74	8.70
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	1.42	26.46	15.22
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	440	10.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.94	19.22	26.09
SECRETARIES	90	2.13	15.63	52.17
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.47	44.80	10.87
STATISTICAL CLERKS	10	0.23	43.08	2.17

SIC 354 METALWORKING MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	80	1.89	22.74	34.78
GENERAL OFFICE CLERKS	40	0.94	28.98	19.57
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	100	2.35	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.23	26.47	13.04
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	0.94	20.28	21.74
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	1.18	17.42	34.78
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	50	1.18	N.A.	N.A.
SERVICE OCCUPATIONS	40	0.94	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	0.94	26.31	21.74
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,890	68.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	180	4.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.47	40.79	8.70
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	160	3.79	11.85	50.00
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	0.71	27.84	13.04
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.23	32.74	6.52
MECHANICS, INSTALLERS, AND REPAIRERS	90	2.13	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	0.71	25.92	10.87
MAINTENANCE REPAIRERS-GENERAL UTILITY	60	1.42	28.26	19.57
PRECISION PRODUCTION OCCUPATIONS	1,110	26.29	N.A.	N.A.
TOOL AND DIE MAKERS	260	6.16	24.47	36.96
MACHINISTS	640	15.16	16.29	58.70
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	50	1.18	37.64	8.70
PATTERN AND MODEL MAKERS-WOOD	160	3.79	49.45	8.70
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	460	10.87	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.23	31.06	10.87
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	1.18	29.34	13.04
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	10	0.23	38.57	6.52
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	140	3.31	28.77	13.04

SIC 354 METALWORKING MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC..................	120	2.84	25.09	19.57
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC..........	130	3.08	42.18	15.22
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC..................	220	5.21	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC............................	60	1.42	36.14	8.70
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC.......................	160	3.79	41.86	8.70
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS..............	90	2.13	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS...........................	90	2.13	45.05	8.70
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC........................	70	1.65	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC.............................	70	1.65	41.73	4.35
PRECISION ASSEMBLERS..	100	2.36	N.A.	N.A.
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION.............	40	0.94	46.95	6.52
ALL OTHER PRECISION ASSEMBLERS-METAL................................	60	1.42	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS..	230	5.43	N.A.	N.A.
WELDERS AND CUTTERS..	110	2.60	40.12	13.04
GRINDING AND POLISHING WORKERS-HAND.................................	20	0.47	30.42	10.87
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION....................	100	2.36	28.60	17.39
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS........................	90	2.12	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND..............................	20	0.47	27.38	8.70
HAND PACKERS AND PACKAGERS..	10	0.23	44.22	6.52
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND................	60	1.42	33.60	4.35
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS.................	210	4.97	N.A.	N.A.

SIC 355 SPECIAL INDSTRY MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,520	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	330	9.44	N.A.	N.A.
FINANCIAL MANAGERS	40	1.14	21.22	50.00
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.28	35.00	17.86
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	1.14	41.15	35.71
INDUSTRIAL PRODUCTION MANAGERS	80	2.29	17.07	71.43
GENERAL MANAGERS AND TOP EXECUTIVES	130	3.73	22.73	89.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	370	10.57	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	1.14	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	40	1.14	33.01	32.14
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	40	1.14	23.33	53.57
ENGINEERS	90	2.57	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	20	0.57	35.79	21.43
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.28	28.29	10.71
MECHANICAL ENGINEERS	60	1.72	20.80	39.29
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	100	2.87	N.A.	N.A.
DRAFTERS	100	2.87	18.96	57.14
ALL OTHER ENGINEERS AND RELATED WORKERS	40	1.14	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.57	N.A.	N.A.
COMPUTER PROGRAMMERS	20	0.57	42.44	21.43
SALES AND RELATED OCCUPATIONS	120	3.43	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	10	0.28	48.58	21.43
SALES ENGINEERS	20	0.57	47.40	14.29
ALL OTHER SALES AND RELATED WORKERS	90	2.58	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	410	11.73	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.57	39.37	25.00
SECRETARIES	80	2.29	18.86	67.86
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.57	48.90	17.86
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	1.14	30.37	46.43
PAYROLL AND TIMEKEEPING CLERKS	10	0.28	14.45	28.57
GENERAL OFFICE CLERKS	40	1.14	34.15	28.57
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	140	4.00	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	1.14	20.23	35.71

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	40	1.14	26.84	35.71
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	60	1.72	19.98	50.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.72	N.A.	N.A.
SERVICE OCCUPATIONS	60	1.72	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	60	1.72	22.94	53.57
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,230	63.91	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	130	3.73	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	130	3.73	11.13	64.29
PRECISION INSPECTORS, TESTERS, AND GRADERS	30	0.86	33.68	17.86
MECHANICS, INSTALLERS, AND REPAIRERS	80	2.28	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	1.14	31.51	21.43
MILLWRIGHTS	20	0.57	30.31	7.14
MAINTENANCE REPAIRERS-GENERAL UTILITY	20	0.57	43.38	21.43
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.28	N.A.	N.A.
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	10	0.28	43.74	14.29
PRECISION PRODUCTION OCCUPATIONS	360	10.32	N.A.	N.A.
TOOL AND DIE MAKERS	10	0.28	49.98	10.71
MACHINISTS	220	6.32	20.79	60.71
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	30	0.86	23.16	21.43
SHEET METAL OCCUPATIONS	80	2.29	32.14	21.43
ALL OTHER PRECISION METAL WORKERS	20	0.57	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	5.44	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.86	32.57	25.00
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.86	32.06	21.43
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-GPERATORS-METAL AND PLASTIC	40	1.14	23.98	21.43
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.57	31.37	14.29
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	70	2.01	41.64	21.43
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.57	N.A.	N.A.

SIC 355 SPECIAL INDSTRY MACHINERY
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.57	30.14	14.29
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	4.59	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	160	4.59	48.84	25.00
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	100	2.87	N.A.	N.A.
WELDING MACHINE OPERATORS AND TENDERS	100	2.87	26.30	21.43
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	6.31	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	120	3.44	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	100	2.87	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	40	1.14	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	20	0.57	38.88	17.86
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.57	N.A.	N.A.
PRECISION ASSEMBLERS	150	4.30	N.A.	N.A.
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	140	4.02	22.67	25.00
ALL OTHER PRECISION ASSEMBLERS-METAL	10	0.28	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	600	17.22	N.A.	N.A.
MACHINE ASSEMBLERS	110	3.16	35.41	17.86
WELDERS AND CUTTERS	180	5.17	23.30	39.29
GRINDING AND POLISHING WORKERS-HAND	60	1.72	32.90	28.57
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	210	6.03	42.11	39.29
ALL OTHER HAND WORKERS	40	1.14	42.54	7.14
MATERIAL MOVING EQUIPMENT OPERATORS	40	1.14	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	1.14	39.31	21.43
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	60	1.72	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	1.72	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	24,190	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,970	8.09	N.A.	N.A.
FINANCIAL MANAGERS	80	0.33	9.77	82.35
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	50	0.20	7.71	58.82
PURCHASING MANAGERS	90	0.37	5.36	64.71
ADMINISTRATIVE SERVICES MANAGERS	140	0.57	6.61	52.94
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	640	2.64	3.74	76.47
ALL OTHER ADMINISTRATIVE MANAGERS	200	0.82	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	290	1.19	11.10	88.24
GENERAL MANAGERS AND TOP EXECUTIVES	290	1.19	11.25	88.24
ALL OTHER MANAGERS AND ADMINISTRATORS	190	0.78	26.40	35.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	10,070	41.50	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	430	1.77	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	110	0.45	10.11	58.82
ALL OTHER FINANCIAL SPECIALISTS	320	1.32	7.74	29.41
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	140	0.57	8.08	64.71
ALL OTHER MANAGEMENT SUPPORT WORKERS	520	2.14	11.32	41.18
ENGINEERS	3,780	15.59	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	1,050	4.33	5.78	88.24
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	350	1.44	8.21	58.82
MECHANICAL ENGINEERS	190	0.78	13.79	52.94
ALL OTHER ENGINEERS	2,190	9.04	18.50	41.18
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,220	9.15	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	1,590	6.56	7.53	94.12
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	270	1.11	11.25	41.18
DRAFTERS	180	0.74	9.37	64.71
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	180	0.74	21.14	35.29
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	2,290	9.45	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	510	2.10	15.64	64.71
COMPUTER PROGRAMMERS	1,780	7.35	4.01	76.47
WRITERS AND EDITORS	60	0.24	24.75	17.65
TECHNICAL WRITERS	140	0.57	5.44	41.18
DESIGNERS-EXCEPT INTERIOR DESIGNERS	90	0.37	14.51	29.41
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	400	1.65	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	550	2.25	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	120	0.49	13.27	47.06
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	190	0.78	32.36	29.41
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	90	0.37	27.27	35.29
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,920	16.08	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	210	0.86	13.63	47.06
ADJUSTMENT CLERKS	120	0.49	26.70	41.18
SECRETARIES	800	3.30	5.35	88.24
RECEPTIONISTS AND INFORMATION CLERKS	60	0.24	14.56	29.41
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.08	0.00	5.88
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.16	8.69	35.29
FILE CLERKS	40	0.16	8.72	41.18
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	90	0.37	22.28	35.29
PROCUREMENT CLERKS	80	0.33	11.64	47.06
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	290	1.19	8.65	76.47
PAYROLL AND TIMEKEEPING CLERKS	80	0.33	4.66	29.41
BILLING, COST AND RATE CLERKS	50	0.20	10.69	23.53
GENERAL OFFICE CLERKS	880	3.63	17.43	76.47
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	240	0.98	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	140	0.57	3.95	52.94
DATA ENTRY KEYERS-EXCEPT COMPOSING	100	0.41	15.48	47.06
SWITCHBOARD OPERATORS	50	0.20	13.37	58.82
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	800	3.28	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	480	1.98	15.54	70.59
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	10	0.04	0.00	5.88
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	140	0.57	13.59	76.47
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	100	0.41	21.55	58.82
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	70	0.28	44.00	23.53
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.28	N.A.	N.A.
SERVICE OCCUPATIONS	250	1.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	10	0.04	13.60	23.53
GUARDS AND WATCH GUARDS	160	0.66	10.40	35.29
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.33	8.05	47.06

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	7,430	30.58	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	390	1.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	60	0.24	21.45	41.18
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	280	1.15	12.78	64.71
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	50	0.20	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	750	3.09	5.25	58.82
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	170	0.70	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	480	1.97	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	90	0.37	14.40	29.41
MAINTENANCE REPAIRERS-GENERAL UTILITY	170	0.70	10.22	29.41
DATA PROCESSING EQUIPMENT REPAIRERS	130	0.53	7.21	23.53
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	90	0.37	33.38	23.53
PRECISION PRODUCTION OCCUPATIONS	170	0.69	N.A.	N.A.
TOOL AND DIE MAKERS	30	0.12	12.00	17.65
MACHINISTS	120	0.49	21.93	52.94
SHEET METAL OCCUPATIONS	20	0.08	29.19	17.65
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	0.08	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	20	0.08	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	30	0.12	N.A.	N.A.
ELECTRONIC SEMICONDUCTOR PROCESSORS	10	0.04	0.00	5.88
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.08	48.41	11.76
PRECISION ASSEMBLERS	1,310	5.40	N.A.	N.A.
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	1,010	4.17	2.42	17.65
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	300	1.23	33.87	41.18
OTHER HANDWORKING OCCUPATIONS	3,530	14.57	N.A.	N.A.
MACHINE ASSEMBLERS	80	0.33	0.00	5.88
ELECTRICAL AND ELECTRONIC ASSEMBLERS	3,230	13.34	11.04	58.82
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	220	0.90	48.30	17.65
MOTOR VEHICLE OPERATORS	20	0.08	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.08	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.04	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	10	0.04	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	490	2.01	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	360	1.48	9.99	35.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	130	0.53	41.19	23.53
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.24	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	17,840	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,000	5.53	N.A.	N.A.
FINANCIAL MANAGERS	120	0.66	26.28	80.95
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	50	0.27	16.47	57.14
PURCHASING MANAGERS	50	0.27	15.22	61.90
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	110	0.61	19.55	61.90
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	160	0.89	21.54	66.67
INDUSTRIAL PRODUCTION MANAGERS	240	1.33	15.17	95.24
GENERAL MANAGERS AND TOP EXECUTIVES	230	1.28	25.97	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	950	5.23	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	90	0.49	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	50	0.27	37.87	33.33
ALL OTHER FINANCIAL SPECIALISTS	40	0.22	48.76	14.29
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	130	0.72	24.32	61.90
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.11	36.13	19.05
COST ESTIMATORS	10	0.05	45.88	19.05
ENGINEERS	320	1.77	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	60	0.33	46.65	14.29
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	130	0.72	19.01	42.86
MECHANICAL ENGINEERS	130	0.72	24.07	52.38
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	190	1.04	N.A.	N.A.
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.22	43.22	23.81
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.16	46.90	19.05
DRAFTERS	120	0.66	31.67	47.62
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	110	0.61	N.A.	N.A.
COMPUTER PROGRAMMERS	20	0.11	30.90	28.57
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	90	0.50	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.05	16.58	23.81
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	70	0.39	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	360	1.99	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	60	0.33	26.66	38.10
SALES ENGINEERS	60	0.33	43.15	23.81
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.11	46.76	14.29

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	90	0.50	44.17	28.57
ALL OTHER SALES AND RELATED WORKERS	130	0.72	34.15	38.10
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,610	8.90	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	140	0.78	29.01	57.14
ADJUSTMENT CLERKS	60	0.33	34.49	38.10
SECRETARIES	170	0.94	18.51	76.19
RECEPTIONISTS AND INFORMATION CLERKS	10	0.05	46.75	14.29
TYPISTS-WORD PROCESSING EQUIPMENT	10	0.05	40.21	14.29
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	40	0.22	26.61	38.10
PROCUREMENT CLERKS	40	0.22	42.76	28.57
STATISTICAL CLERKS	10	0.05	41.58	14.29
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	140	0.78	13.93	71.43
PAYROLL AND TIMEKEEPING CLERKS	50	0.27	17.45	57.14
BILLING, COST AND RATE CLERKS	40	0.22	34.09	33.33
GENERAL OFFICE CLERKS	90	0.50	31.98	33.33
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	70	0.38	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	40	0.22	23.78	33.33
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.16	43.88	28.57
SWITCHBOARD OPERATORS	40	0.22	21.25	47.62
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	610	3.39	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	90	0.50	23.53	57.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	230	1.28	26.07	57.14
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	230	1.28	19.33	71.43
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	0.33	41.27	19.05
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	90	0.50	N.A.	N.A.
SERVICE OCCUPATIONS	150	0.82	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.11	43.20	23.81
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	100	0.55	27.25	57.14
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	13,770	76.62	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	750	4.16	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	120	0.66	42.61	33.33

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	580	3.23	15.78	85.71
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	50	0.27	N.A.	N.A.
PRECISION INSPECTORS, TESTERS, AND GRADERS	270	1.50	21.18	38.10
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	370	2.06	21.08	61.90
MECHANICS, INSTALLERS, AND REPAIRERS	390	2.16	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	190	1.05	34.05	38.10
MAINTENANCE REPAIRERS-GENERAL UTILITY	140	0.78	34.00	47.62
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	60	0.33	44.78	19.05
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.11	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	20	0.11	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	40	0.22	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	1,160	6.45	N.A.	N.A.
TOOL AND DIE MAKERS	220	1.22	18.30	38.10
MACHINISTS	270	1.50	39.38	33.33
SHEET METAL OCCUPATIONS	530	2.95	26.80	47.62
ALL OTHER PRECISION METAL WORKERS	140	0.78	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	740	4.11	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	260	1.45	31.53	23.81
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	50	0.27	49.34	14.29
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	180	1.00	44.92	19.05
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	250	1.39	49.03	14.29
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	670	3.72	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	380	2.11	39.34	38.10
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	290	1.61	43.34	23.81
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	60	0.33	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	60	0.33	41.64	19.05
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	320	1.78	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SOLDERING AND BRAZING MACHINE SETTERS AND SET-UP OPERATORS	60	0.33	41.15	14.29
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	260	1.45	47.15	19.05
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	30	0.16	N.A.	N.A.
HEATING EQUIPMENT SETTERS AND SET-UP OPERATORS- METAL AND PLASTIC	30	0.16	47.51	9.52
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	370	2.06	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	370	2.06	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	180	0.99	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	60	0.33	46.95	23.81
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	50	0.27	44.12	14.29
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	70	0.39	44.84	14.29
PRECISION ASSEMBLERS	500	2.78	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	500	2.78	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	5,630	31.39	N.A.	N.A.
MACHINE ASSEMBLERS	1,060	5.91	31.07	28.57
ELECTRICAL AND ELECTRONIC ASSEMBLERS	210	1.17	32.71	23.81
WELDERS AND CUTTERS	400	2.23	27.78	33.33
SOLDERERS AND BRAZERS	660	3.68	35.90	33.33
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,300	18.40	20.19	76.19
MOTOR VEHICLE OPERATORS	20	0.11	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.11	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	640	3.56	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	530	2.95	36.61	38.10
ALL OTHER TRANSPORTATION AND MATERIAL MOVING EQUIPMENT OPERATORS	110	0.61	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	570	3.17	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	150	0.83	46.29	14.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	420	2.34	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	1,040	5.80	N.A.	N.A.

SIC 359 INDUSTRIAL MACHINERY, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	17,010	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,770	10.33	N.A.	N.A.
FINANCIAL MANAGERS	230	1.35	21.66	29.61
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.11	17.74	5.92
PURCHASING MANAGERS	10	0.05	15.67	5.26
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.11	45.01	5.92
ADMINISTRATIVE SERVICES MANAGERS	20	0.11	17.17	4.61
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	80	0.46	26.67	11.84
INDUSTRIAL PRODUCTION MANAGERS	270	1.58	16.43	32.24
GENERAL MANAGERS AND TOP EXECUTIVES	1,110	6.51	7.54	78.29
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	540	3.13	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	60	0.35	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	60	0.35	31.77	9.87
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	130	0.76	18.30	26.32
COST ESTIMATORS	100	0.58	27.49	12.50
ENGINEERS	60	0.34	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.11	29.31	3.29
MECHANICAL ENGINEERS	40	0.23	33.48	7.24
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	50	0.29	N.A.	N.A.
DRAFTERS	50	0.29	21.07	9.87
ALL OTHER ENGINEERS AND RELATED WORKERS	50	0.29	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	0.35	N.A.	N.A.
COMPUTER PROGRAMMERS	60	0.35	29.03	9.87
SALES AND RELATED OCCUPATIONS	390	2.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.11	36.87	5.26
SALES ENGINEERS	50	0.29	49.69	5.92
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	110	0.64	30.49	11.84
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	200	1.17	22.44	18.42
ALL OTHER SALES AND RELATED WORKERS	10	0.05	32.50	3.29
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,240	13.09	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	340	1.99	15.79	31.58
ADJUSTMENT CLERKS	20	0.11	31.28	3.29

SIC 359 INDUSTRIAL MACHINERY, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SECRETARIES	610	3.58	12.76	42.76
RECEPTIONISTS AND INFORMATION CLERKS	10	0.05	23.73	6.58
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.11	36.28	3.29
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	70	0.41	35.60	7.24
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	430	2.52	13.70	43.42
PAYROLL AND TIMEKEEPING CLERKS	20	0.11	22.91	8.55
BILLING, COST AND RATE CLERKS	20	0.11	36.35	3.95
GENERAL OFFICE CLERKS	310	1.82	17.30	29.61
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	320	1.87	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	60	0.35	15.55	11.84
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	60	0.35	16.35	12.50
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	200	1.17	15.58	27.63
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	0.41	N.A.	N.A.
SERVICE OCCUPATIONS	360	2.10	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	340	1.99	19.36	32.24
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	11,710	68.50	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	640	3.73	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.11	42.71	3.29
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	580	3.40	10.90	48.03
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.11	31.08	3.95
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.11	41.46	1.97
PRECISION INSPECTORS, TESTERS, AND GRADERS	140	0.82	22.87	19.74
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	0.41	24.27	8.55
MECHANICS, INSTALLERS, AND REPAIRERS	430	2.50	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	180	1.05	27.70	15.13
MAINTENANCE REPAIRERS-GENERAL UTILITY	110	0.64	29.21	15.79
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	30	0.17	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	110	0.64	150.01	1.32
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	10	0.05	N.A.	N.A.

SIC 359 INDUSTRIAL MACHINERY, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRICIANS	10	0.05	20.40	4.61
PRECISION PRODUCTION OCCUPATIONS	5,410	31.75	N.A.	N.A.
MACHINISTS	5,120	30.06	6.46	83.55
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	40	0.23	23.74	9.21
SHEET METAL OCCUPATIONS	110	0.64	24.86	5.92
ALL OTHER PRECISION METAL WORKERS	140	0.82	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	1,800	10.53	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	100	0.58	23.72	14.47
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	710	4.16	20.18	25.00
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	220	1.29	26.00	13.82
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	170	0.99	32.29	9.87
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	330	1.93	22.04	19.08
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	270	1.58	43.34	13.82
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	0.93	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.23	47.88	4.61
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	120	0.70	33.36	5.26
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	630	3.68	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	290	1.70	20.00	15.13
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	180	1.05	45.47	5.92
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	160	0.93	43.73	5.92
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	200	1.16	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	80	0.46	30.08	7.89
WELDING MACHINE OPERATORS AND TENDERS	120	0.70	32.39	6.58
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	60	0.34	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	40	0.23	N.A.	N.A.

SIC 359 INDUSTRIAL MACHINERY, NEC
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	20	0.11	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	140	0.81	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	60	0.35	25.86	6.58
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	80	0.46	N.A.	N.A.
PRECISION ASSEMBLERS	160	0.93	N.A.	N.A.
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	160	0.93	31.39	9.87
OTHER HANDWORKING OCCUPATIONS	1,280	7.50	N.A.	N.A.
WELDERS AND CUTTERS	800	4.69	15.87	32.24
GRINDING AND POLISHING WORKERS-HAND	210	1.23	34.82	12.50
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	270	1.58	25.75	11.18
MOTOR VEHICLE OPERATORS	60	0.34	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	30	0.17	26.37	5.92
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.17	22.95	7.89
MATERIAL MOVING EQUIPMENT OPERATORS	40	0.23	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	0.23	33.63	5.92
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	360	2.09	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	50	0.29	39.88	5.26
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	100	0.58	32.53	9.21
HAND PACKERS AND PACKAGERS	30	0.17	47.63	3.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	180	1.05	33.89	6.58
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	120	0.70	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 36 - ELECTRONIC AND OTHER ELECTRICAL EQUIPMENT AND COMPONENTS, EXCEPT COMPUTER EQUIPMENT

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy.

SIC 361 - ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT

Establishments that are primarily engaged in manufacturing power, distribution, and specialty transformers; and switchgear and switchboard apparatus are in this industry.

SIC 364 - ELECTRIC LIGHTING AND WIRING EQUIPMENT

This industry group includes establishments primarily engaged in manufacturing electric lamp bulbs and tubes; current-carrying wiring devices; noncurrent-carrying wiring devices; residential electric lighting fixtures; commercial, industrial, and institutional electric lighting fixtures; vehicular lighting equipment; and lighting equipment, not elsewhere classified.

SIC 365 - HOUSEHOLD AUDIO AND VIDEO EQUIPMENT, AND AUDIO RECORDINGS

This industry group includes establishments primarily engaged in manufacturing household audio and video equipment, such as television sets, radio broadcast receivers, and tape players; and phonograph records and prerecorded audio tapes and disks.

SIC 366 - COMMUNICATIONS EQUIPMENT

Establishments that are primarily engaged in manufacturing telephone and telegraph apparatus; radio and television broadcasting and communications equipment; and communications equipment, not elsewhere classified, are in this industry.

SIC 367 - ELECTRONIC COMPONENTS AND ACCESSORIES

This industry group includes establishments primarily engaged in manufacturing electron tubes; printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; electronic coils, transformers, and other inductors; electronic connectors; and electronic components, not elsewhere classified.

SIC 369 - MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

This industry group includes establishments primarily engaged in manufacturing storage batteries; primary batteries, dry and wet; electrical equipment for internal combustion engines; magnetic and optical recording media; and electrical machinery, equipment, and supplies, not elsewhere classified.

SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	107,800	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	7,620	7.04	N.A.	N.A.
FINANCIAL MANAGERS	690	0.64	10.72	58.29
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	350	0.32	6.69	45.71
PURCHASING MANAGERS	310	0.28	6.03	39.43
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	780	0.72	7.91	33.14
ADMINISTRATIVE SERVICES MANAGERS	220	0.20	10.20	22.86
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	1,810	1.68	12.24	46.86
INDUSTRIAL PRODUCTION MANAGERS	1,220	1.13	7.35	64.00
GENERAL MANAGERS AND TOP EXECUTIVES	1,490	1.38	11.34	80.57
ALL OTHER MANAGERS AND ADMINISTRATORS	750	0.69	11.34	24.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	33,950	31.39	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	1,160	1.06	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	900	0.83	5.58	46.86
BUDGET ANALYSTS	80	0.07	8.64	10.29
ALL OTHER FINANCIAL SPECIALISTS	180	0.16	9.93	10.29
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	700	0.64	8.02	54.29
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	410	0.38	4.07	29.71
COST ESTIMATORS	80	0.07	9.71	14.29
ALL OTHER MANAGEMENT SUPPORT WORKERS	400	0.37	10.04	19.43
ENGINEERS	14,490	13.43	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	130	0.12	12.51	8.00
CHEMICAL ENGINEERS	40	0.03	16.20	4.57
COMPUTER ENGINEERS	960	0.89	10.62	17.71
SAFETY ENGINEERS-EXCEPT MINING	120	0.11	7.19	13.14
MECHANICAL ENGINEERS	910	0.84	7.89	31.43
ALL OTHER ENGINEERS	12,330	11.44	18.37	20.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	13,340	12.37	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	6,040	5.60	2.49	45.71
DRAFTERS	1,600	1.48	10.02	45.14
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	5,700	5.29	4.77	16.00
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	270	0.25	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,890	1.73	N.A.	N.A.
COMPUTER PROGRAMMERS	740	0.68	9.66	26.29
COMPUTER PROGRAMMER AIDES	60	0.05	34.24	6.86

SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PROGRAMMERS-NUMERICAL, TOOL, AND PROCESS CONTROL	40	0.03	43.36	4.57
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	1,050	0.97	36.81	1.14
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	300	0.27	N.A.	N.A.
ALL OTHER MATHEMATICAL SCIENTISTS AND RELATED WORKERS	300	0.27	N.A.	N.A.
LAWYERS AND RELATED OCCUPATIONS	80	0.07	N.A.	N.A.
ALL OTHER LAWYERS AND RELATED WORKERS	80	0.07	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	80	0.07	3.74	14.86
WRITERS AND EDITORS	40	0.03	21.00	5.14
TECHNICAL WRITERS	240	0.22	13.47	19.43
DESIGNERS-EXCEPT INTERIOR DESIGNERS	210	0.19	19.56	13.14
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	260	0.24	23.99	13.71
SALES AND RELATED OCCUPATIONS	1,800	1.66	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	270	0.25	15.72	21.14
SALES ENGINEERS	360	0.33	10.73	17.14
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	670	0.62	19.39	24.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	380	0.35	29.09	21.71
ALL OTHER SALES AND RELATED WORKERS	120	0.11	20.94	10.86
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	13,440	12.34	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	390	0.36	13.04	37.14
ADJUSTMENT CLERKS	220	0.20	25.11	20.57
SECRETARIES	2,110	1.95	5.09	70.29
RECEPTIONISTS AND INFORMATION CLERKS	160	0.14	22.19	29.71
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	220	0.20	15.46	14.86
TYPISTS-WORD PROCESSING EQUIPMENT	110	0.10	10.65	12.00
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	160	0.14	17.36	25.14
FILE CLERKS	130	0.12	14.30	12.57
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	240	0.22	20.28	21.71
PROCUREMENT CLERKS	220	0.20	11.05	25.71
STATISTICAL CLERKS	80	0.07	5.50	7.43
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	1,330	1.23	6.06	59.43
PAYROLL AND TIMEKEEPING CLERKS	190	0.17	25.47	33.14
BILLING, COST AND RATE CLERKS	160	0.14	28.41	10.86
GENERAL OFFICE CLERKS	1,870	1.73	4.40	45.14

SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	990	0.90	N.A.	N.A.
PERIPHERAL EDP EQUIPMENT OPERATORS	30	0.02	19.91	2.86
DATA ENTRY KEYERS-EXCEPT COMPOSING	280	0.25	6.12	30.86
ALL OTHER OFFICE MACHINE OPERATORS	680	0.63	12.24	4.57
SWITCHBOARD OPERATORS	190	0.17	10.85	23.43
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	4,570	4.21	N.A.	N.A.
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.01	33.33	3.43
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	980	0.90	6.72	50.29
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	1,180	1.09	8.83	63.43
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	2,390	2.21	21.72	4.57
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	0.09	10.78	12.00
SERVICE OCCUPATIONS	1,110	1.00	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	60	0.05	10.48	12.00
ALL OTHER PROTECTIVE SERVICE WORKERS	360	0.33	N.A.	N.A.
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	50	0.04	16.42	2.29
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	620	0.57	6.14	31.43
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	49,880	45.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	3,660	3.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	440	0.40	8.61	26.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	3,050	2.83	4.20	73.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	70	0.06	25.34	9.14
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	0.06	9.54	13.14
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	30	0.02	35.39	2.86
PRECISION INSPECTORS, TESTERS, AND GRADERS	2,500	2.32	9.84	35.43
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	2,040	1.89	8.05	42.29
MECHANICS, INSTALLERS, AND REPAIRERS	3,340	3.05	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,380	1.28	3.67	27.43
MILLWRIGHTS	60	0.05	14.05	1.71
MAINTENANCE REPAIRERS-GENERAL UTILITY	520	0.48	18.44	32.00

SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
DATA PROCESSING EQUIPMENT REPAIRERS	610	0.56	23.75	8.57
ELECTRIC MOTOR, TRANSFORMER, AND RELATED REPAIRERS	60	0.05	28.48	2.29
ELECTRONIC REPAIRERS-COMMERCIAL AND INDUSTRIAL EQUIPMENT	140	0.12	10.99	6.86
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	20	0.01	18.32	4.57
PRECISION INSTRUMENT REPAIRERS	380	0.35	21.23	7.43
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	170	0.15	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	80	0.05	N.A.	N.A.
CARPENTERS	20	0.01	19.38	2.29
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	40	0.03	22.42	4.57
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.01	23.80	1.14
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	480	0.44	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	2,920	2.68	N.A.	N.A.
TOOL AND DIE MAKERS	250	0.23	22.79	16.57
PRECISION LAYOUT WORKERS-METAL	40	0.03	27.60	2.29
SHEET METAL OCCUPATIONS	730	0.67	21.86	13.71
ALL OTHER PRECISION METAL WORKERS	1,880	1.74	21.71	0.57
ALL OTHER PRECISION WORKERS	20	0.01	18.62	1.71
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	130	0.11	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	0.04	49.64	3.43
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	80	0.07	34.48	4.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	390	0.35	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	100	0.09	36.62	3.43
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	0.05	26.75	5.71
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	230	0.21	21.21	6.29
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	400	0.36	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	220	0.20	41.12	7.43
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	130	0.12	49.31	3.43
COMBINATION MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	50	0.04	44.84	1.71
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	80	0.06	N.A.	N.A.

SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
WELDING MACHINE SETTERS AND SET-UP OPERATORS	40	0.03	41.35	3.43
WELDING MACHINE OPERATORS AND TENDERS	40	0.03	39.03	2.29
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	500	0.43	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	160	0.14	23.93	5.14
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.03	41.37	3.43
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	230	0.21	24.23	8.00
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	30	0.02	46.12	0.57
FURNACE OPERATORS AND TENDERS	40	0.03	35.11	2.29
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	1,090	1.00	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	890	0.82	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	200	0.18	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	120	0.10	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	100	0.09	6.57	5.14
PRINTING PRESS MACHINE OPERATORS AND TENDERS	20	0.01	20.64	1.71
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	5,810	5.36	N.A.	N.A.
ELECTRONIC SEMICONDUCTOR PROCESSORS	3,610	3.35	14.46	10.29
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	160	0.14	41.38	10.29
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	290	0.26	37.12	9.71
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	340	0.31	30.11	5.14
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	450	0.41	31.15	6.86
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	960	0.89	N.A.	N.A.
PRECISION ASSEMBLERS	8,180	7.58	N.A.	N.A.
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	680	0.63	20.12	6.29
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	6,040	5.60	10.40	29.71
ALL OTHER PRECISION ASSEMBLERS-METAL	1,460	1.35	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	14,810	13.73	N.A.	N.A.
MACHINE ASSEMBLERS	130	0.12	48.33	2.29
ELECTRICAL AND ELECTRONIC ASSEMBLERS	8,690	8.06	17.58	40.57
WELDERS AND CUTTERS	260	0.24	24.19	18.29
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,930	3.64	15.26	33.71

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SIC 36 ELECTRONIC & OTHER ELECTRIC EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER HAND WORKERS	1,800	1.67	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	30	0.02	18.99	1.71
MOTOR VEHICLE OPERATORS	260	0.23	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	120	0.11	19.77	7.43
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	140	0.12	21.48	13.71
MATERIAL MOVING EQUIPMENT OPERATORS	190	0.16	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	140	0.12	19.35	7.43
CONVEYOR OPERATORS AND TENDERS	50	0.04	33.98	2.86
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,850	2.62	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	130	0.12	31.14	4.57
MACHINE FEEDERS AND OFFBEARERS	210	0.19	30.88	3.43
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	1,290	1.19	6.14	27.43
HAND PACKERS AND PACKAGERS	360	0.33	13.67	13.71
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	860	0.79	19.55	16.57

SIC 361 ELECTRIC DISTRIBUTION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,980	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	160	5.33	N.A.	N.A.
FINANCIAL MANAGERS	20	0.66	20.86	52.94
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	30	1.00	36.66	41.18
INDUSTRIAL PRODUCTION MANAGERS	30	1.00	28.35	47.06
GENERAL MANAGERS AND TOP EXECUTIVES	50	1.67	27.58	70.59
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	280	9.33	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.66	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.66	23.48	47.06
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	1.00	24.00	58.82
ENGINEERS	80	2.67	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	70	2.34	20.86	64.71
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.33	24.74	23.53
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	90	3.00	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	50	1.67	29.68	35.29
DRAFTERS	40	1.33	20.18	58.82
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	2.00	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	40	1.33	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	40	1.33	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	370	12.31	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.66	27.53	29.41
SECRETARIES	20	0.66	24.31	52.94
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	30	1.00	22.47	58.82
PAYROLL AND TIMEKEEPING CLERKS	10	0.33	24.67	29.41
GENERAL OFFICE CLERKS	20	0.66	30.22	47.06
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.33	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	10	0.33	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	160	5.33	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	40	1.33	32.35	29.41
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	80	2.67	11.00	64.71
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.33	17.02	41.18
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	3.34	N.A.	N.A.

SIC 361 ELECTRIC DISTRIBUTION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SERVICE OCCUPATIONS	10	0.33	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,120	70.76	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	80	2.67	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	80	2.67	15.09	76.47
PRECISION INSPECTORS, TESTERS, AND GRADERS	60	2.00	20.19	41.18
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	10	0.33	47.75	23.53
MECHANICS, INSTALLERS, AND REPAIRERS	60	1.99	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	1.00	42.08	17.65
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.33	24.25	23.53
ELECTRIC MOTOR, TRANSFORMER, AND RELATED REPAIRERS	20	0.66	45.97	11.76
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.66	N.A.	N.A.
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	20	0.66	45.43	17.65
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	30	1.00	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	170	5.67	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.66	40.29	23.53
MACHINISTS	10	0.33	45.62	23.53
ALL OTHER PRECISION METAL WORKERS	140	4.68	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.66	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.66	49.24	11.76
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	80	2.66	N.A.	N.A.
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	2.00	39.26	17.65
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.66	44.89	17.65
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	30	1.00	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	30	1.00	39.33	11.76
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	50	1.66	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.66	25.27	11.76

SIC 361 ELECTRIC DISTRIBUTION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	30	1.00	30.50	17.65
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	30	1.00	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	30	1.00	41.25	23.53
PRECISION ASSEMBLERS	250	8.36	N.A.	N.A.
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	250	8.36	37.25	47.06
OTHER HANDWORKING OCCUPATIONS	790	26.40	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	280	9.36	31.15	47.06
COIL WINDERS, TAPERS, AND FINISHERS	130	4.34	38.21	29.41
WELDERS AND CUTTERS	40	1.33	34.47	17.65
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	340	11.37	39.79	29.41
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	110	3.67	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	40	1.33	43.72	23.53
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	70	2.34	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	330	11.03	N.A.	N.A.

SIC 364 ELECTRIC LIGHTING AND WIRING EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	3,450	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	220	6.25	N.A.	N.A.
FINANCIAL MANAGERS	30	0.85	19.98	53.85
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.57	13.79	34.62
PURCHASING MANAGERS	10	0.28	16.07	30.77
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	30	0.85	10.66	30.77
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.57	25.30	26.92
INDUSTRIAL PRODUCTION MANAGERS	40	1.14	18.66	57.69
GENERAL MANAGERS AND TOP EXECUTIVES	60	1.71	19.47	61.54
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	230	6.54	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.57	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.57	20.78	26.92
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.57	17.80	38.46
ENGINEERS	50	1.42	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	20	0.57	13.94	30.77
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	10	0.28	15.09	30.77
MECHANICAL ENGINEERS	20	0.57	12.90	15.38
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	50	1.41	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	10	0.28	31.85	15.38
DRAFTERS	30	0.85	17.68	42.31
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.28	25.09	7.69
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	10	0.28	N.A.	N.A.
COMPUTER PROGRAMMERS	10	0.28	45.90	19.23
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	80	2.29	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	80	2.28	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	70	2.00	29.55	46.15
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	500	14.26	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.57	17.81	23.08
ADJUSTMENT CLERKS	20	0.57	28.33	26.92
SECRETARIES	60	1.71	22.71	53.85
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.85	34.94	26.92
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.43	20.64	50.00

SIC 364 ELECTRIC LIGHTING AND WIRING EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GENERAL OFFICE CLERKS	40	1.14	39.77	30.77
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	0.85	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.85	23.08	30.77
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	190	5.43	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	30	0.85	21.52	38.46
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	50	1.43	13.35	38.46
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	110	3.15	18.89	69.23
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	60	1.71	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.57	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.57	12.81	46.15
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,400	68.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	100	2.86	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	2.86	10.58	69.23
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	90	2.57	10.85	50.00
MECHANICS, INSTALLERS, AND REPAIRERS	150	4.27	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	1.14	19.95	26.92
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	0.85	25.47	38.46
ALL OTHER ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	30	0.85	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	50	1.43	37.08	3.85
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.85	N.A.	N.A.
ELECTRICIANS	30	0.85	46.25	11.54
PRECISION PRODUCTION OCCUPATIONS	260	7.43	N.A.	N.A.
TOOL AND DIE MAKERS	40	1.14	20.12	19.23
MACHINISTS	20	0.57	29.38	30.77
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	0.57	37.85	7.69
PRECISION LAYOUT WORKERS-METAL	20	0.57	48.53	7.69
SHEET METAL OCCUPATIONS	160	4.58	36.09	30.77
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	90	2.57	N.A.	N.A.
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.28	31.34	15.38

SIC 364 ELECTRIC LIGHTING AND WIRING EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	80	2.29	27.60	19.23
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	20	0.57	N.A.	N.A.
WELDING MACHINE OPERATORS AND TENDERS	20	0.57	43.46	3.85
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	260	7.44	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	110	3.15	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	150	4.29	43.48	3.85
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	130	3.71	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	50	1.43	21.79	38.46
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.57	35.39	19.23
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	60	1.71	0.00	3.85
OTHER HANDWORKING OCCUPATIONS	930	26.62	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	390	11.17	17.70	30.77
WELDERS AND CUTTERS	100	2.86	27.67	30.77
SOLDERERS AND BRAZERS	10	0.28	24.05	11.54
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	330	9.45	15.18	46.15
ALL OTHER HAND WORKERS	100	2.86	N.A.	N.A.
MOTOR VEHICLE OPERATORS	50	1.42	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	10	0.28	43.20	11.54
ALL OTHER MOTOR VEHICLE OPERATORS	40	1.14	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.85	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	30	0.85	28.10	15.38
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	220	6.29	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	30	0.85	30.20	23.08
HAND PACKERS AND PACKAGERS	110	3.15	19.97	38.46
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	80	2.29	33.48	23.08

SIC 365 HOUSEHOLD AUDIO AND VIDEO EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,040	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	100	9.60	N.A.	N.A.
FINANCIAL MANAGERS	20	1.92	30.54	42.86
INDUSTRIAL PRODUCTION MANAGERS	10	0.96	37.09	28.57
GENERAL MANAGERS AND TOP EXECUTIVES	50	4.80	24.21	85.71
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	110	10.56	N.A.	N.A.
ENGINEERS	30	2.88	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	20	1.92	38.53	28.57
ALL OTHER ENGINEERS	10	0.96	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	20	1.92	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	1.92	17.30	28.57
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	60	5.76	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	10	0.96	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	180	17.28	N.A.	N.A.
SECRETARIES	20	1.92	22.19	64.29
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.96	47.63	28.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	1.92	29.89	64.29
GENERAL OFFICE CLERKS	40	3.84	15.58	42.86
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	60	5.76	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.96	15.98	21.43
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	1.92	18.84	28.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	30	2.88	20.24	64.29
SERVICE OCCUPATIONS	10	0.96	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	630	60.54	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	20	1.92	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	20	1.92	22.73	64.29
PRECISION INSPECTORS, TESTERS, AND GRADERS	10	0.96	39.92	14.29
MECHANICS, INSTALLERS, AND REPAIRERS	10	0.96	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.96	18.27	28.57
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	1.92	N.A.	N.A.

SIC 365 HOUSEHOLD AUDIO AND VIDEO EQUIPMENT
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	1.92	42.90	7.14
PRECISION ASSEMBLERS	20	1.92	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	20	1.92	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	360	34.61	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	210	20.19	29.48	14.29
SOLDERERS AND BRAZERS	20	1.92	42.37	7.14
ALL OTHER HAND WORKERS	130	12.50	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	20	1.92	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	1.92	0.00	7.14
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND- EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	130	12.49	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	20	1.92	10.17	14.29
HAND PACKERS AND PACKAGERS	20	1.92	43.58	7.14
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	90	8.65	0.00	7.14

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	23,940	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2,340	9.72	N.A.	N.A.
FINANCIAL MANAGERS	150	0.62	7.88	65.79
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	120	0.50	8.54	60.53
PURCHASING MANAGERS	80	0.33	12.97	55.26
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	430	1.79	11.78	55.26
ADMINISTRATIVE SERVICES MANAGERS	130	0.54	9.62	44.74
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	430	1.79	8.63	65.79
INDUSTRIAL PRODUCTION MANAGERS	260	1.08	10.42	76.32
GENERAL MANAGERS AND TOP EXECUTIVES	280	1.16	17.14	86.84
ALL OTHER MANAGERS AND ADMINISTRATORS	460	1.91	12.35	50.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	6,630	27.50	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	360	1.49	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	240	1.00	6.59	63.16
BUDGET ANALYSTS	10	0.04	31.84	13.16
ALL OTHER FINANCIAL SPECIALISTS	110	0.45	14.99	26.32
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	260	1.08	8.42	68.42
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	140	0.58	6.44	47.37
COST ESTIMATORS	40	0.16	10.97	28.95
ALL OTHER MANAGEMENT SUPPORT WORKERS	270	1.12	11.94	36.84
ENGINEERS	2,400	9.97	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	30	0.12	27.44	10.53
CIVIL ENGINEERS-INCLUDING TRAFFIC	40	0.16	20.75	15.79
ELECTRICAL AND ELECTRONIC ENGINEERS	1,260	5.25	7.66	76.32
COMPUTER ENGINEERS	200	0.83	21.22	28.95
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	420	1.75	7.82	55.26
SAFETY ENGINEERS-EXCEPT MINING	50	0.20	13.60	15.79
MECHANICAL ENGINEERS	190	0.79	28.24	50.00
ALL OTHER ENGINEERS	210	0.87	20.19	34.21
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,200	9.14	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	1,120	4.66	7.58	78.95
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	110	0.45	14.63	34.21
DRAFTERS	290	1.20	9.06	52.63
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	680	2.83	13.37	28.95
PHYSICAL SCIENTISTS	30	0.12	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE .ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PHYSICAL SCIENTISTS	30	0.12	24.49	2.63
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.08	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	20	0.08	22.36	5.26
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	490	2.03	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	240	1.00	9.06	52.63
COMPUTER PROGRAMMERS	210	0.87	9.68	47.37
COMPUTER PROGRAMMER AIDES	30	0.12	23.55	13.16
PROGRAMMERS-NUMERICAL, TOOL, AND PROCESS CONTROL	10	0.04	35.36	10.53
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	20	0.08	N.A.	N.A.
OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS-EXCEPT COMPUTER RELATED	20	0.08	14.67	7.89
LAWYERS AND RELATED OCCUPATIONS	20	0.08	N.A.	N.A.
ALL OTHER LAWYERS AND RELATED WORKERS	20	0.08	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	10	0.04	10.90	15.79
WRITERS AND EDITORS	20	0.08	14.32	7.89
TECHNICAL WRITERS	130	0.54	12.98	39.47
DESIGNERS-EXCEPT INTERIOR DESIGNERS	120	0.50	12.60	23.68
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	100	0.41	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	500	2.07	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	60	0.25	31.63	28.95
SALES ENGINEERS	50	0.20	26.54	23.68
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	300	1.25	15.32	50.00
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	0.25	29.58	13.16
ALL OTHER SALES AND RELATED WORKERS	30	0.12	29.86	15.79
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3,520	14.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	200	0.83	13.72	57.89
ADJUSTMENT CLERKS	90	0.37	12.47	31.58
SECRETARIES	620	2.58	6.20	92.11
RECEPTIONISTS AND INFORMATION CLERKS	40	0.16	13.59	39.47
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	140	0.58	19.45	13.16
TYPISTS-WORD PROCESSING EQUIPMENT	70	0.29	12.77	26.32
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	60	0.25	10.61	31.58
FILE CLERKS	20	0.08	25.72	13.16
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	80	0.33	31.52	26.32

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PROCUREMENT CLERKS	90	0.37	15.49	39.47
STATISTICAL CLERKS	40	0.16	8.91	13.16
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	240	1.00	11.94	65.79
PAYROLL AND TIMEKEEPING CLERKS	40	0.16	17.89	39.47
BILLING, COST AND RATE CLERKS	100	0.41	19.39	21.05
GENERAL OFFICE CLERKS	370	1.54	12.58	52.63
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	310	1.28	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	130	0.54	6.49	52.63
PERIPHERAL EDP EQUIPMENT OPERATORS	30	0.12	21.85	10.53
DATA ENTRY KEYERS-EXCEPT COMPOSING	120	0.50	9.32	44.74
ALL OTHER OFFICE MACHINE OPERATORS	30	0.12	12.80	15.79
SWITCHBOARD OPERATORS	90	0.37	21.28	42.11
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	880	3.65	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	390	1.62	6.55	71.05
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	290	1.20	11.59	57.89
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	200	0.83	9.56	60.53
SERVICE OCCUPATIONS	230	0.94	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.08	9.64	21.05
GUARDS AND WATCH GUARDS	60	0.25	13.26	15.79
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	30	0.12	19.91	7.89
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	110	0.45	11.78	31.58
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	10,720	44.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	800	3.32	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	100	0.41	21.52	34.21
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	660	2.75	4.78	73.68
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.08	23.22	18.42
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.08	14.13	18.42
PRECISION INSPECTORS, TESTERS, AND GRADERS	790	3.29	9.60	44.74
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	510	2.12	12.09	44.74
MECHANICS, INSTALLERS, AND REPAIRERS	910	3.76	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	150	0.62	13.04	31.58

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAINTENANCE REPAIRERS-GENERAL UTILITY	150	0.62	13.55	36.84
DATA PROCESSING EQUIPMENT REPAIRERS	460	1.91	31.09	18.42
ELECTRONIC REPAIRERS-COMMERCIAL AND INDUSTRIAL EQUIPMENT	100	0.41	13.53	15.79
PRECISION INSTRUMENT REPAIRERS	50	0.20	15.76	10.53
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.12	N.A.	N.A.
ELECTRICIANS	20	0.08	14.79	15.79
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	10	0.04	20.63	5.26
PRECISION PRODUCTION OCCUPATIONS	290	1.19	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.08	20.27	13.16
MACHINISTS	50	0.20	22.44	18.42
PRECISION LAYOUT WORKERS-METAL	10	0.04	21.72	2.63
ALL OTHER PRECISION METAL WORKERS	210	0.87	N.A.	N.A.
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	40	0.16	N.A.	N.A.
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.16	37.59	2.63
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	70	0.28	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	20	0.08	22.91	5.26
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	50	0.20	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	200	0.82	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	10	0.04	49.30	5.26
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	20	0.08	21.62	7.89
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	120	0.50	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	50	0.20	36.01	7.89
PRECISION ASSEMBLERS	2,860	11.91	N.A.	N.A.
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	60	0.25	20.94	7.89
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	200	0.83	18.72	10.53
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	2,360	9.83	13.02	39.47
ALL OTHER PRECISION ASSEMBLERS-METAL	240	1.00	21.94	2.63
OTHER HANDWORKING OCCUPATIONS	3,270	13.59	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	2,490	10.37	15.51	55.26
COIL WINDERS, TAPERS, AND FINISHERS	110	0.45	39.01	15.79
WELDERS AND CUTTERS	30	0.12	21.76	13.16
SOLDERERS AND BRAZERS	30	0.12	33.48	7.89

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	560	2.33	22.89	28.95
ALL OTHER HAND WORKERS	50	0.20	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	20	0.08	20.18	5.26
MOTOR VEHICLE OPERATORS	40	0.16	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	40	0.16	24.32	21.05
MATERIAL MOVING EQUIPMENT OPERATORS	30	0.12	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	10	0.04	29.53	7.89
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.08	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	810	3.36	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	30	0.12	21.72	2.63
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	400	1.66	11.04	34.21
HAND PACKERS AND PACKAGERS	120	0.50	20.08	10.53
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	260	1.08	20.24	13.16

SIC 367 ELECTRONIC COMPONENTS AND ACCESSORIES
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	63,670	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	3,980	6.21	N.A.	N.A.
FINANCIAL MANAGERS	400	0.62	17.33	69.23
ADMINISTRATIVE SERVICES MANAGERS	60	0.09	26.98	41.03
ALL OTHER ADMINISTRATIVE MANAGERS	1,820	2.85	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	700	1.09	11.08	76.92
GENERAL MANAGERS AND TOP EXECUTIVES	740	1.16	20.01	84.62
ALL OTHER MANAGERS AND ADMINISTRATORS	260	0.40	24.28	28.21
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	25,020	39.23	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	670	1.05	N.A.	N.A.
ALL OTHER FINANCIAL SPECIALISTS	670	1.05	6.41	12.82
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	300	0.47	14.75	66.67
ALL OTHER MANAGEMENT SUPPORT WORKERS	320	0.50	N.A.	N.A.
ENGINEERS	11,130	17.48	N.A.	N.A.
ALL OTHER ENGINEERS	11,130	17.48	24.08	35.90
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10,500	16.49	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10,500	16.49	4.26	25.64
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	210	0.32	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,190	1.86	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	1,190	1.86	N.A.	N.A.
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	280	0.43	N.A.	N.A.
ALL OTHER MATHEMATICAL SCIENTISTS AND RELATED WORKERS	280	0.43	N.A.	N.A.
LAWYERS AND RELATED OCCUPATIONS	70	0.10	N.A.	N.A.
ALL OTHER LAWYERS AND RELATED WORKERS	70	0.10	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	50	0.07	3.10	25.64
WRITERS AND EDITORS	20	0.03	26.37	2.56
TECHNICAL WRITERS	80	0.12	23.23	28.21
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	200	0.31	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	820	1.28	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	220	0.34	40.20	28.21
ALL OTHER SALES AND RELATED WORKERS	600	0.94	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	7,310	11.44	N.A.	N.A.

SIC 367 ELECTRONIC COMPONENTS AND ACCESSORIES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	90	0.14	41.09	41.03
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	60	0.09	N.A.	N.A.
SECRETARIES	1,140	1.79	7.25	74.36
RECEPTIONISTS AND INFORMATION CLERKS	80	0.12	40.59	38.46
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.03	22.27	12.82
TYPISTS-WORD PROCESSING EQUIPMENT	30	0.04	18.21	17.95
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	60	0.09	29.86	43.59
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	100	0.15	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	100	0.15	4.32	46.15
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	80	0.12	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	2,630	4.13	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	510	0.80	15.80	66.67
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	2,120	3.33	26.68	5.13
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	3,020	4.74	N.A.	N.A.
SERVICE OCCUPATIONS	730	1.13	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	30	0.04	17.44	20.51
ALL OTHER PROTECTIVE SERVICE WORKERS	270	0.42	N.A.	N.A.
FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS	20	0.03	26.96	2.56
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	410	0.64	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	25,810	40.36	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,840	2.88	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,800	2.82	6.12	84.62
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.03	28.35	2.56
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.03	25.47	7.69
PRECISION INSPECTORS, TESTERS, AND GRADERS	1,380	2.16	10.34	56.41
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,130	1.77	12.47	56.41
MECHANICS, INSTALLERS, AND REPAIRERS	1,850	2.87	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	1,050	1.64	4.04	38.46
MACHINERY MAINTENANCE WORKERS	20	0.03	20.32	7.69

SIC 367 ELECTRONIC COMPONENTS AND ACCESSORIES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MAINTENANCE REPAIRERS-GENERAL UTILITY	270	0.42	34.80	35.90
ALL OTHER ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	170	0.26	N.A.	N.A.
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	10	0.01	24.90	10.26
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	330	0.51	34.58	7.69
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	0.06	N.A.	N.A.
CARPENTERS	20	0.03	22.52	5.13
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	20	0.03	23.80	5.13
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	340	0.53	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	1,870	2.93	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	1,870	2.93	N.A.	N.A.
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	0.29	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	190	0.29	47.66	23.08
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	170	0.25	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	40	0.06	35.29	7.69
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	100	0.15	46.60	10.26
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	30	0.04	46.12	2.56
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	730	1.14	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	600	0.94	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	130	0.20	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	90	0.14	N.A.	N.A.
PRINTING PRESS MACHINE SETTERS AND SET-UP OPERATORS	90	0.14	6.51	15.38
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	4,870	7.63	N.A.	N.A.
ELECTRONIC SEMICONDUCTOR PROCESSORS	3,530	5.54	14.50	43.59
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	150	0.23	46.24	2.56
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	320	0.50	39.66	20.51
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	870	1.36	20.57	17.95
PRECISION ASSEMBLERS	440	0.68	N.A.	N.A.

SIC 367 ELECTRONIC COMPONENTS AND ACCESSORIES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	20	0.03	28.60	2.56
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	420	0.65	24.57	7.69
OTHER HANDWORKING OCCUPATIONS	9,570	15.02	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	3,320	5.21	40.56	33.33
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,330	2.08	40.01	33.33
ALL OTHER HAND WORKERS	4,920	7.73	N.A.	N.A.
MOTOR VEHICLE OPERATORS	20	0.03	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.03	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.01	N.A.	N.A.
CONVEYOR OPERATORS AND TENDERS	10	0.01	27.61	2.56
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	960	1.49	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	10	0.01	28.04	2.56
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	560	0.87	6.64	33.33
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	390	0.61	12.47	28.21
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	310	0.48	N.A.	N.A.

SIC 369 MISC. ELECTRICAL EQUIPMENT & SUPPLIES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	6,180	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	410	6.56	N.A.	N.A.
FINANCIAL MANAGERS	40	0.64	23.32	59.09
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.32	11.36	59.09
PURCHASING MANAGERS	20	0.32	7.51	40.91
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.32	47.81	27.27
ADMINISTRATIVE SERVICES MANAGERS	10	0.16	38.65	18.18
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	70	1.12	9.91	45.45
INDUSTRIAL PRODUCTION MANAGERS	110	1.76	12.98	68.18
GENERAL MANAGERS AND TOP EXECUTIVES	110	1.76	14.52	77.27
ALL OTHER MANAGERS AND ADMINISTRATORS	10	0.16	37.39	18.18
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	780	12.48	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	30	0.48	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	30	0.48	23.20	36.36
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	40	0.64	20.77	40.91
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.32	8.63	27.27
COST ESTIMATORS	20	0.32	14.54	18.18
ENGINEERS	350	5.60	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	240	3.84	22.23	36.36
COMPUTER ENGINEERS	10	0.16	26.30	18.18
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.32	18.88	27.27
MECHANICAL ENGINEERS	80	1.28	12.35	27.27
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	170	2.72	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	110	1.76	12.34	31.82
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	20	0.32	13.54	13.64
DRAFTERS	40	0.64	22.90	31.82
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	0.96	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.32	24.38	22.73
COMPUTER PROGRAMMERS	40	0.64	16.10	9.09
TECHNICAL WRITERS	10	0.16	12.88	13.64
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	80	1.28	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	90	1.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.32	44.32	27.27
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	10	0.16	22.43	13.64

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER SALES AND RELATED WORKERS	60	0.96	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	800	12.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30	0.48	25.18	40.91
ADJUSTMENT CLERKS	20	0.32	21.18	27.27
SECRETARIES	100	1.60	17.79	63.64
RECEPTIONISTS AND INFORMATION CLERKS	20	0.32	27.17	31.82
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	10	0.16	21.26	13.64
PROCUREMENT CLERKS	10	0.16	30.26	13.64
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	70	1.12	13.03	63.64
PAYROLL AND TIMEKEEPING CLERKS	20	0.32	31.46	36.36
GENERAL OFFICE CLERKS	90	1.44	18.91	50.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	20	0.32	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	20	0.32	12.17	31.82
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	340	5.44	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	80	1.28	13.39	45.45
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	110	1.76	17.04	63.64
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	150	2.40	26.93	68.18
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	70	1.12	N.A.	N.A.
SERVICE OCCUPATIONS	50	0.80	N.A.	N.A.
GUARDS AND WATCH GUARDS	10	0.16	21.57	13.64
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	0.64	20.57	27.27
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,050	64.82	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	190	3.04	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	170	2.72	11.42	63.64
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	10	0.16	16.61	18.18
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	10	0.16	16.61	22.73
PRECISION INSPECTORS, TESTERS, AND GRADERS	80	1.28	17.49	22.73
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	180	2.88	12.29	40.91
MECHANICS, INSTALLERS, AND REPAIRERS	170	2.72	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	80	1.28	13.86	36.36

SIC 369 MISC. ELECTRICAL EQUIPMENT & SUPPLIES
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MILLWRIGHTS	40	0.64	14.35	4.55
MAINTENANCE REPAIRERS-GENERAL UTILITY	30	0.48	13.64	22.73
ALL OTHER ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	20	0.32	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	0.64	N.A.	N.A.
ELECTRICIANS	40	0.64	26.00	27.27
PRECISION PRODUCTION OCCUPATIONS	220	3.52	N.A.	N.A.
MACHINISTS	220	3.52	39.80	36.36
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.32	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.32	43.90	9.09
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.32	N.A.	N.A.
SHEAR AND SLITTER MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.32	48.00	9.09
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.32	N.A.	N.A.
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.32	47.27	4.55
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	30	0.48	N.A.	N.A.
SOLDERING AND BRAZING MACHINE OPERATORS AND TENDERS	30	0.48	45.12	9.09
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	60	0.96	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	60	0.96	33.42	13.64
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	3.52	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	160	2.56	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	60	0.96	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	210	3.36	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	10	0.16	44.82	9.09
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	200	3.20	31.91	13.64
PRECISION ASSEMBLERS	290	4.64	N.A.	N.A.
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	240	3.84	43.54	27.27
ALL OTHER PRECISION ASSEMBLERS-METAL	50	0.80	N.A.	N.A.

SIC 369 MISC. ELECTRICAL EQUIPMENT & SUPPLIES
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	1,580	25.30	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	730	11.69	14.29	31.82
COIL WINDERS, TAPERS, AND FINISHERS	30	0.48	34.29	18.18
WELDERS AND CUTTERS	20	0.32	28.22	18.18
SOLDERERS AND BRAZERS	60	0.96	36.30	9.09
GRINDING AND POLISHING WORKERS-HAND	40	0.64	48.71	9.09
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	500	8.01	25.39	27.27
ALL OTHER HAND WORKERS	200	3.20	34.91	9.09
MOTOR VEHICLE OPERATORS	110	1.76	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	80	1.28	26.98	13.64
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.48	43.44	13.64
MATERIAL MOVING EQUIPMENT OPERATORS	50	0.80	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	50	0.80	30.94	13.64
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	190	3.04	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	140	2.24	33.52	27.27
HAND PACKERS AND PACKAGERS	50	0.80	33.26	18.18
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	370	5.92	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 37 - TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water, such as motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, motorcycles, bicycles, and snowmobiles.

SIC 371 - MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

Establishments that are primarily engaged in manufacturing motor vehicles and passenger car bodies; truck and bus bodies; motor vehicle parts and accessories; truck trailers; and motor homes are in this industry.

SIC 372 - AIRCRAFT AND PARTS

This industry group includes establishments primarily engaged in manufacturing aircraft; aircraft engines and engine parts; and aircraft parts and auxiliary equipment, not elsewhere classified.

SIC 373 - SHIP AND BOAT BUILDING AND REPAIRING

This industry group includes establishments primarily engaged in building and repairing ships, barges, and lighters, whether self-propelled or towed by other craft; and boat building and repairing.

SIC 374 - RAILROAD EQUIPMENT

Establishments that are primarily engaged in building and rebuilding locomotives (including frames and parts, not elsewhere classified) of any type or gauge; and railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service are in this industry.

SIC-376 - GUIDED MISSILES AND SPACE VEHICLES AND PARTS

This industry group includes establishments primarily engaged in manufacturing guided missiles and space vehicles; guided missile and space vehicle propulsion units and propulsion unit parts; and guided missile and space vehicle parts and auxiliary, not elsewhere classified.

SIC 379 - MISCELLANEOUS TRANSPORTATION EQUIPMENT

This industry group includes establishments primarily engaged in manufacturing travel trailers and campers; tanks and tank components; and transportation equipment, not elsewhere classified.

SIC 37 TRANSPORTATION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	99,090	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	4,880	4.90	N.A.	N.A.
FINANCIAL MANAGERS	360	0.36	5.76	40.80
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	180	0.18	5.71	31.20
PURCHASING MANAGERS	190	0.19	6.19	35.20
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	310	0.31	6.93	31.20
ADMINISTRATIVE SERVICES MANAGERS	260	0.26	6.51	21.60
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	1,210	1.22	3.29	28.80
INDUSTRIAL PRODUCTION MANAGERS	1,040	1.05	5.70	60.00
GENERAL MANAGERS AND TOP EXECUTIVES	810	0.81	8.95	77.60
ALL OTHER MANAGERS AND ADMINISTRATORS	520	0.52	7.00	20.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	23,880	23.98	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	1,020	1.02	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	440	0.44	5.35	32.00
BUDGET ANALYSTS	190	0.19	3.10	9.60
ALL OTHER FINANCIAL SPECIALISTS	390	0.39	5.90	6.40
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	820	0.82	4.17	49.60
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	340	0.34	2.38	21.60
COST ESTIMATORS	490	0.49	4.66	22.40
ALL OTHER MANAGEMENT SUPPORT WORKERS	960	0.96	2.96	16.00
ENGINEERS	12,950	13.04	N.A.	N.A.
AERONAUTICAL AND ASTRONAUTICAL ENGINEERS	5,250	5.30	0.08	8.00
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	70	0.07	9.65	5.60
CHEMICAL ENGINEERS	140	0.14	6.94	3.20
CIVIL ENGINEERS-INCLUDING TRAFFIC	180	0.18	7.49	10.40
ELECTRICAL AND ELECTRONIC ENGINEERS	1,040	1.05	3.45	13.60
COMPUTER ENGINEERS	790	0.79	5.24	8.80
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	2,450	2.47	5.66	24.80
SAFETY ENGINEERS-EXCEPT MINING	110	0.11	5.81	17.60
MECHANICAL ENGINEERS	940	0.94	5.17	25.60
ALL OTHER ENGINEERS	1,980	1.99	3.10	8.80
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,380	2.38	N.A.	N.A.
CIVIL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	50	0.05	23.61	1.60
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	390	0.39	3.63	11.20
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	510	0.51	10.40	9.60
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	320	0.32	8.97	7.20

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
DRAFTERS	450	0.45	7.70	30.40
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	660	0.66	7.03	8.80
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	210	0.21	N.A.	N.A.
PHYSICAL SCIENTISTS	60	0.06	6.87	1.60
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	150	0.15	8.99	3.20
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,760	1.76	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	860	0.86	2.49	15.20
COMPUTER PROGRAMMERS	520	0.52	5.75	15.20
COMPUTER PROGRAMMER AIDES	80	0.08	10.83	5.60
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	300	0.30	9.00	1.60
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	650	0.65	N.A.	N.A.
OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS-EXCEPT COMPUTER RELATED	380	0.38	2.90	4.00
STATISTICIANS	230	0.23	8.31	3.20
ALL OTHER MATHEMATICAL SCIENTISTS	40	0.04	6.54	2.40
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	70	0.07	4.37	12.80
WRITERS AND EDITORS	400	0.40	5.74	4.00
TECHNICAL WRITERS	280	0.28	3.82	12.00
ARTISTS AND RELATED OCCUPATIONS	220	0.22	1.72	8.00
DESIGNERS-EXCEPT INTERIOR DESIGNERS	100	0.10	4.62	8.00
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	1,230	1.24	2.80	11.20
SALES AND RELATED OCCUPATIONS	850	0.85	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	100	0.10	14.92	16.80
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	180	0.18	21.78	12.80
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	270	0.27	19.80	21.60
ALL OTHER SALES AND RELATED WORKERS	300	0.30	12.69	12.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	11,030	11.06	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	750	0.75	6.69	42.40
ADJUSTMENT CLERKS	100	0.10	17.48	8.00
SECRETARIES	1,700	1.71	3.95	68.00
STENOGRAPHERS	430	0.43	4.28	4.00
RECEPTIONISTS AND INFORMATION CLERKS	80	0.08	16.10	15.20

SIC 37 TRANSPORTATION EQUIPMENT
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	120	0.12	13.08	12.00
TYPISTS-WORD PROCESSING EQUIPMENT	70	0.07	13.09	8.00
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	140	0.14	6.27	19.20
FILE CLERKS	90	0.09	8.07	5.60
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	140	0.14	10.80	8.80
PROCUREMENT CLERKS	200	0.20	5.05	16.80
STATISTICAL CLERKS	120	0.12	3.78	3.20
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	460	0.46	8.48	52.00
PAYROLL AND TIMEKEEPING CLERKS	170	0.17	6.00	30.40
BILLING, COST AND RATE CLERKS	100	0.10	10.69	16.00
GENERAL OFFICE CLERKS	670	0.67	7.14	42.40
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	570	0.57	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	150	0.15	3.67	13.60
PERIPHERAL EDP EQUIPMENT OPERATORS	40	0.04	12.89	4.80
DATA ENTRY KEYERS-EXCEPT COMPOSING	200	0.20	9.20	20.80
ALL OTHER OFFICE MACHINE OPERATORS	180	0.18	2.08	4.80
SWITCHBOARD OPERATORS	100	0.10	6.57	29.60
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	4,610	4.63	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	280	0.28	12.72	7.20
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	1,840	1.85	3.37	28.80
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	20	0.02	10.45	3.20
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	1,560	1.57	4.43	40.80
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	850	0.85	4.79	46.40
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	0.06	29.04	4.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	410	0.41	4.57	8.00
SERVICE OCCUPATIONS	1,390	1.39	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	110	0.11	5.73	12.00
GUARDS AND WATCH GUARDS	470	0.47	3.85	17.60
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	660	0.66	6.77	36.00
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	10	0.01	38.79	1.60
ALL OTHER SERVICE WORKERS	140	0.14	N.A.	N.A.
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70	0.07	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	56,990	57.28	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	3,510	3.53	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	460	0.46	6.11	33.60
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	40	0.04	12.37	6.40
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	2,830	2.85	2.95	59.20
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	80	0.08	10.03	11.20
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	0.06	23.69	9.60
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	40	0.04	8.71	3.20
PRECISION INSPECTORS, TESTERS, AND GRADERS	1,580	1.59	5.28	24.80
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,490	1.50	5.91	28.00
TRANSPORTATION INSPECTORS	90	0.09	7.48	4.80
MECHANICS, INSTALLERS, AND REPAIRERS	6,500	6.51	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	640	0.64	5.29	28.80
MILLWRIGHTS	100	0.10	13.15	4.80
MACHINERY MAINTENANCE WORKERS	80	0.08	9.45	12.80
MAINTENANCE REPAIRERS-GENERAL UTILITY	440	0.44	15.92	30.40
AUTOMOTIVE MECHANICS	160	0.16	18.25	15.20
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	30	0.03	19.53	3.20
RAIL CAR REPAIRERS	450	0.45	13.53	5.60
AIRCRAFT MECHANICS	2,020	2.03	16.18	10.40
AIRCRAFT ENGINE SPECIALISTS	660	0.66	7.97	5.60
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	70	0.07	N.A.	N.A.
RADIO MECHANICS	70	0.07	16.04	0.80
ELECTRONIC REPAIRERS-COMMERCIAL AND INDUSTRIAL EQUIPMENT	140	0.14	8.80	4.80
ELECTRICAL INSTALLERS AND REPAIRERS-TRANSPORTATION EQUIPMENT	410	0.41	5.58	8.80
PRECISION INSTRUMENT REPAIRERS	600	0.60	5.42	6.40
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	630	0.63	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	1,500	1.50	N.A.	N.A.
CARPENTERS	390	0.39	23.43	20.00
ELECTRICIANS	570	0.57	7.44	24.00
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	290	0.29	19.95	15.20
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	210	0.21	28.47	7.20
ALL OTHER CONSTRUCTION TRADES WORKERS	40	0.04	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	160	0.16	38.03	4.80

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION PRODUCTION OCCUPATIONS	5,660	5.69	N.A.	N.A.
TOOL AND DIE MAKERS	1,130	1.14	6.22	20.00
MACHINISTS	2,180	2.20	9.76	36.80
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	440	0.44	11.44	15.20
PRECISION LAYOUT WORKERS-METAL	40	0.04	10.98	4.80
SHIPFITTERS	300	0.30	34.22	4.00
SHEET METAL OCCUPATIONS	900	0.90	14.04	16.80
ALL OTHER PRECISION METAL WORKERS	450	0.45	15.59	6.40
PATTERN AND MODEL MAKERS-WOOD	100	0.10	38.96	7.20
ALL OTHER PRECISION WORKERS	120	0.12	8.84	4.00
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	2,220	2.22	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	210	0.21	16.20	9.60
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	300	0.30	27.07	7.20
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	370	0.37	11.47	9.60
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	590	0.59	15.97	8.00
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	420	0.42	19.00	15.20
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	330	0.33	24.34	12.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	280	0.28	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	70	0.07	28.86	4.00
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	180	0.18	35.97	6.40
FORGING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.03	3.57	2.40
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	760	0.76	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	580	0.58	17.99	12.80
COMBINATION MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	180	0.18	44.18	3.20
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	630	0.63	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	340	0.34	32.52	9.60

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
WELDING MACHINE OPERATORS AND TENDERS	290	0.29	30.23	9.60
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	690	0.69	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	150	0.15	9.92	2.40
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	170	0.17	38.20	4.80
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	70	0.07	39.96	2.40
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	150	0.15	21.81	4.80
HEATING EQUIPMENT SETTERS AND SET-UP OPERATORS- METAL AND PLASTIC	70	0.07	19.57	4.00
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	80	0.08	15.61	8.00
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	600	0.60	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	280	0.28	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	320	0.32	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	110	0.11	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	110	0.11	35.17	6.40
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	2,510	2.51	N.A.	N.A.
PAINTERS-TRANSPORTATION EQUIPMENT	930	0.93	7.09	26.40
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS	270	0.27	37.55	10.40
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	160	0.16	19.64	9.60
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS	210	0.21	42.74	5.60
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	620	0.62	9.95	9.60
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	320	0.32	22.62	7.20
PRECISION ASSEMBLERS	8,680	8.75	N.A.	N.A.
AIRCRAFT STRUCTURE, SURFACES, RIGGING, AND SYSTEMS ASSEMBLERS-PRECISION	5,660	5.71	1.33	9.60
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS	1,250	1.26	17.36	8.00
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	1,570	1.58	6.68	6.40
ALL OTHER PRECISION ASSEMBLERS-METAL	200	0.20	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	14,530	14.65	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINE ASSEMBLERS	330	0.33	6.93	3.20
ELECTRICAL AND ELECTRONIC ASSEMBLERS	700	0.70	12.89	8.80
WELDERS AND CUTTERS	3,100	3.13	10.09	52.80
SOLDERERS AND BRAZERS	130	0.13	18.28	4.80
GRINDING AND POLISHING WORKERS-HAND	420	0.42	24.37	12.80
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	6,540	6.60	10.10	41.60
ALL OTHER HAND WORKERS	3,310	3.34	8.22	9.60
PLANT AND SYSTEM OCCUPATIONS	130	0.13	N.A.	N.A.
STATIONARY ENGINEERS	70	0.07	5.72	5.60
ALL OTHER PLANT AND SYSTEM OPERATORS	60	0.06	10.05	4.00
MOTOR VEHICLE OPERATORS	490	0.49	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	340	0.34	19.01	26.40
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	150	0.15	25.11	18.40
ALL OTHER TRANSPORTATION AND RELATED WORKERS	180	0.18	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	610	0.61	N.A.	N.A.
CRANE AND TOWER OPERATORS	230	0.23	6.41	9.60
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	350	0.35	15.83	15.20
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	30	0.03	47.20	2.40
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	4,080	4.10	N.A.	N.A.
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	140	0.14	19.25	3.20
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	940	0.94	7.74	23.20
VEHICLE WASHERS AND EQUIPMENT CLEANERS	180	0.18	38.67	8.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	2,820	2.84	N.A.	N.A.

SIC 371 MOTOR VEHICLES AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	17,560	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	680	3.83	N.A.	N.A.
FINANCIAL MANAGERS	50	0.28	18.87	47.06
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	30	0.17	16.27	38.24
PURCHASING MANAGERS	30	0.17	19.04	41.18
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.22	22.27	29.41
ADMINISTRATIVE SERVICES MANAGERS	20	0.11	34.51	20.59
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	40	0.22	28.64	32.35
INDUSTRIAL PRODUCTION MANAGERS	140	0.79	10.64	64.71
GENERAL MANAGERS AND TOP EXECUTIVES	260	1.48	19.68	82.35
ALL OTHER MANAGERS AND ADMINISTRATORS	70	0.39	19.57	20.59
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	650	3.65	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	80	0.45	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	80	0.45	15.67	35.29
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	140	0.79	19.53	58.82
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.11	18.70	17.65
COST ESTIMATORS	30	0.17	13.83	14.71
ENGINEERS	180	1.02	N.A.	N.A.
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	60	0.34	12.90	29.41
MECHANICAL ENGINEERS	60	0.34	25.21	20.59
ALL OTHER ENGINEERS	60	0.34	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	90	0.51	N.A.	N.A.
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.17	27.61	5.88
DRAFTERS	60	0.34	19.99	32.35
ALL OTHER ENGINEERS AND RELATED WORKERS	40	0.22	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.10	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	10	0.05	35.11	11.76
COMPUTER PROGRAMMERS	10	0.05	23.96	17.65
SALES AND RELATED OCCUPATIONS	360	2.03	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	0.22	20.18	29.41
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	80	0.45	43.02	14.71
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	210	1.19	24.48	41.18
ALL OTHER SALES AND RELATED WORKERS	30	0.17	38.93	11.76

SIC 371 MOTOR VEHICLES AND EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,380	7.78	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	120	0.68	34.73	44.12
ADJUSTMENT CLERKS	20	0.11	49.84	8.82
SECRETARIES	260	1.48	12.11	70.59
RECEPTIONISTS AND INFORMATION CLERKS	20	0.11	29.74	20.59
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.11	29.51	17.65
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	20	0.11	31.01	11.76
PROCUREMENT CLERKS	20	0.11	35.04	14.71
STATISTICAL CLERKS	10	0.05	9.09	2.94
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	120	0.68	25.81	47.06
PAYROLL AND TIMEKEEPING CLERKS	30	0.17	22.05	29.41
BILLING, COST AND RATE CLERKS	20	0.11	36.22	14.71
GENERAL OFFICE CLERKS	120	0.68	33.06	44.12
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	40	0.22	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	40	0.22	27.63	29.41
SWITCHBOARD OPERATORS	20	0.11	26.93	29.41
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	460	2.60	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	90	0.51	21.51	29.41
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	270	1.53	23.71	38.24
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	100	0.56	15.38	55.88
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	0.45	N.A.	N.A.
SERVICE OCCUPATIONS	170	0.95	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	10	0.05	14.19	11.76
GUARDS AND WATCH GUARDS	40	0.22	20.27	11.76
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	120	0.68	22.22	35.29
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	14,320	81.32	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS- PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	810	4.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	80	0.45	18.96	35.29
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	660	3.75	8.92	67.65
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	20	0.11	36.02	17.65
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	20	0.11	40.65	11.76

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	30	0.17	8.79	2.94
PRECISION INSPECTORS, TESTERS, AND GRADERS	110	0.62	25.14	23.53
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	200	1.13	35.93	29.41
MECHANICS, INSTALLERS, AND REPAIRERS	660	3.72	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	140	0.79	17.88	32.35
MILLWRIGHTS	30	0.17	26.98	8.82
MAINTENANCE REPAIRERS-GENERAL UTILITY	140	0.79	29.43	26.47
AUTOMOTIVE MECHANICS	60	0.34	43.21	14.71
BUS AND TRUCK MECHANICS, AND DIESEL ENGINE SPECIALISTS	20	0.11	19.80	5.88
ALL OTHER MOBILE EQUIPMENT MECHANICS, INSTALLERS, AND REPAIRERS	70	0.39	N.A.	N.A.
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	200	1.13	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	290	1.64	N.A.	N.A.
CARPENTERS	110	0.62	44.56	14.71
ELECTRICIANS	150	0.85	16.09	17.65
ALL OTHER CONSTRUCTION TRADES WORKERS	30	0.17	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	120	0.68	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	520	2.94	N.A.	N.A.
TOOL AND DIE MAKERS	120	0.68	40.36	14.71
MACHINISTS	110	0.62	22.15	26.47
SHEET METAL OCCUPATIONS	280	1.59	32.77	26.47
PATTERN AND MODEL MAKERS-WOOD	10	0.05	49.48	5.88
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	1.08	N.A.	N.A.
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	190	1.08	39.96	14.71
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	70	0.39	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	70	0.39	47.75	17.65
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	180	1.02	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	180	1.02	39.47	11.76
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	0.11	N.A.	N.A.
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.11	49.21	11.76
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	780	4.43	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	540	3.07	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	240	1.36	N.A.	N.A.
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	50	0.28	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	960	5.46	N.A.	N.A.
PAINTERS-TRANSPORTATION EQUIPMENT	250	1.42	23.39	26.47
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	30	0.17	46.92	8.82
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	680	3.87	N.A.	N.A.
PRECISION ASSEMBLERS	340	1.93	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	340	1.93	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	7,880	44.86	N.A.	N.A.
WELDERS AND CUTTERS	1,370	7.80	19.61	50.00
GRINDING AND POLISHING WORKERS-HAND	60	0.34	37.17	14.71
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	3,290	18.73	16.17	52.94
ALL OTHER HAND WORKERS	3,160	17.99	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	20	0.11	N.A.	N.A.
STATIONARY ENGINEERS	20	0.11	10.44	5.88
MOTOR VEHICLE OPERATORS	220	1.24	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	140	0.79	39.57	32.35
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	80	0.45	44.15	14.71
ALL OTHER TRANSPORTATION AND RELATED WORKERS	50	0.28	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	110	0.62	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	110	0.62	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	670	3.80	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	190	1.08	32.77	23.53
VEHICLE WASHERS AND EQUIPMENT CLEANERS	20	0.11	47.54	8.82
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	460	2.61	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	70	0.39	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	70,980	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	3,610	5.04	N.A.	N.A.
FINANCIAL MANAGERS	280	0.39	6.41	73.33
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	110	0.15	4.17	50.00
PURCHASING MANAGERS	130	0.18	6.92	53.33
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	250	0.35	7.51	56.67
ADMINISTRATIVE SERVICES MANAGERS	220	0.30	7.14	53.33
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	1,140	1.60	3.32	63.33
INDUSTRIAL PRODUCTION MANAGERS	820	1.15	6.92	83.33
GENERAL MANAGERS AND TOP EXECUTIVES	300	0.42	10.23	83.33
ALL OTHER MANAGERS AND ADMINISTRATORS	360	0.50	5.67	36.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	22,470	31.47	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	880	1.22	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	330	0.46	6.07	60.00
BUDGET ANALYSTS	170	0.23	3.18	23.33
ALL OTHER FINANCIAL SPECIALISTS	380	0.53	5.95	20.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	610	0.85	2.96	70.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	290	0.40	2.05	46.67
COST ESTIMATORS	420	0.59	4.99	50.00
ALL OTHER MANAGEMENT SUPPORT WORKERS	940	1.32	2.98	43.33
ENGINEERS	12,450	17.49	N.A.	N.A.
AERONAUTICAL AND ASTRONAUTICAL ENGINEERS	5,240	7.37	0.06	30.00
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	50	0.07	7.99	16.67
CHEMICAL ENGINEERS	100	0.14	9.25	3.33
CIVIL ENGINEERS-INCLUDING TRAFFIC	130	0.18	7.98	23.33
ELECTRICAL AND ELECTRONIC ENGINEERS	990	1.39	3.60	33.33
COMPUTER ENGINEERS	780	1.09	5.30	23.33
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	2,360	3.32	5.87	46.67
SAFETY ENGINEERS-EXCEPT MINING	80	0.11	3.77	33.33
MECHANICAL ENGINEERS	810	1.14	4.52	56.67
MARINE ENGINEERS	70	0.09	13.96	3.33
ALL OTHER ENGINEERS	1,840	2.59	3.20	20.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,150	3.00	N.A.	N.A.
CIVIL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	0.04	13.73	3.33
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	350	0.49	3.44	30.00
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	500	0.70	10.62	26.67

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	290	0.40	9.50	20.00
DRAFTERS	360	0.50	8.81	60.00
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	620	0.87	6.53	23.33
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	190	0.26	N.A.	N.A.
PHYSICAL SCIENTISTS	60	0.08	6.87	6.67
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	130	0.18	8.81	10.00
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,650	2.31	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	810	1.14	2.28	33.33
COMPUTER PROGRAMMERS	480	0.67	5.87	23.33
COMPUTER PROGRAMMER AIDES	80	0.11	10.93	20.00
PROGRAMMERS-NUMERICAL, TOOL, AND PROCESS CONTROL	180	0.25	7.99	16.67
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	100	0.14	9.00	6.67
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	640	0.88	N.A.	N.A.
OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS-EXCEPT COMPUTER RELATED	380	0.53	2.90	16.67
STATISTICIANS	220	0.30	8.39	6.67
ALL OTHER MATHEMATICAL SCIENTISTS	40	0.05	6.54	10.00
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	50	0.07	1.93	26.67
WRITERS AND EDITORS	400	0.56	5.77	13.33
TECHNICAL WRITERS	280	0.39	3.85	40.00
ARTISTS AND RELATED OCCUPATIONS	210	0.29	1.32	20.00
DESIGNERS-EXCEPT INTERIOR DESIGNERS	100	0.14	4.40	23.33
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	1,210	1.70	2.82	26.67
SALES AND RELATED OCCUPATIONS	330	0.44	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	20	0.02	20.87	10.00
SALES ENGINEERS	130	0.18	14.92	23.33
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	0.08	13.49	16.67
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.02	42.69	10.00
ALL OTHER SALES AND RELATED WORKERS	100	0.14	14.85	10.00
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	8,820	12.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	560	0.78	4.63	46.67
ADJUSTMENT CLERKS	80	0.11	18.13	23.33

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SECRETARIES	1,280	1.80	4.48	73.33
STENOGRAPHERS	430	0.60	4.28	16.67
RECEPTIONISTS AND INFORMATION CLERKS	50	0.07	19.95	36.67
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	90	0.12	10.94	33.33
TYPISTS-WORD PROCESSING EQUIPMENT	60	0.08	14.59	23.33
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	110	0.15	6.42	36.67
FILE CLERKS	80	0.11	4.26	20.00
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	120	0.16	11.91	10.00
PROCUREMENT CLERKS	170	0.23	3.84	36.67
STATISTICAL CLERKS	100	0.14	4.07	10.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	230	0.32	6.67	63.33
PAYROLL AND TIMEKEEPING CLERKS	110	0.15	5.04	53.33
BILLING, COST AND RATE CLERKS	70	0.09	11.17	33.33
GENERAL OFFICE CLERKS	460	0.64	4.19	43.33
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	490	0.67	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	140	0.19	3.60	36.67
PERIPHERAL EDP EQUIPMENT OPERATORS	30	0.04	12.90	6.67
DATA ENTRY KEYERS-EXCEPT COMPOSING	150	0.21	9.91	36.67
ALL OTHER OFFICE MACHINE OPERATORS	170	0.23	1.67	16.67
SWITCHBOARD OPERATORS	60	0.08	4.25	46.67
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	3,900	5.47	N.A.	N.A.
DISPATCHERS-EXCEPT POLICE, FIRE, AND AMBULANCE	250	0.35	11.85	13.33
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	1,720	2.42	3.40	63.33
WEIGHERS, MEASURERS, CHECKERS, AND SAMPLERS-RECORDKEEPING	10	0.01	13.41	6.67
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	1,190	1.67	1.66	63.33
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	690	0.97	5.18	76.67
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	40	0.05	34.80	10.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	370	0.52	4.86	20.00
SERVICE OCCUPATIONS	1,080	1.49	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	80	0.11	4.64	26.67
GUARDS AND WATCH GUARDS	380	0.53	2.37	33.33
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	490	0.68	7.13	53.33
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	10	0.01	38.79	6.67
ALL OTHER SERVICE WORKERS	120	0.16	3.09	13.33
AGRICULTURAL, FORESTRY, FISHING, AND RELATED OCCUPATIONS	70	0.09	N.A.	N.A.

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	34,600	48.28	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	2,280	3.19	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	300	0.42	6.82	46.67
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	30	0.04	9.80	20.00
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,860	2.61	2.44	73.33
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-TRANSPORTATION AND MATERIAL MOVING MACHINE AND VEHICLE OCCUPATIONS	60	0.08	8.38	16.67
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	30	0.04	34.18	16.67
PRECISION INSPECTORS, TESTERS, AND GRADERS	1,400	1.97	5.59	53.33
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	1,170	1.64	3.41	60.00
TRANSPORTATION INSPECTORS	60	0.08	8.29	6.67
MECHANICS, INSTALLERS, AND REPAIRERS	4,910	6.83	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	420	0.59	4.64	50.00
MILLWRIGHTS	70	0.09	14.71	10.00
MACHINERY MAINTENANCE WORKERS	60	0.08	3.54	23.33
MAINTENANCE REPAIRERS-GENERAL UTILITY	170	0.23	23.64	43.33
AUTOMOTIVE MECHANICS	60	0.08	18.84	23.33
AIRCRAFT MECHANICS	2,020	2.84	16.18	43.33
AIRCRAFT ENGINE SPECIALISTS	660	0.92	7.97	23.33
RADIO MECHANICS	70	0.09	16.04	3.33
ELECTRONIC REPAIRERS-COMMERCIAL AND INDUSTRIAL EQUIPMENT	120	0.16	9.92	13.33
ELECTRICAL INSTALLERS AND REPAIRERS-TRANSPORTATION EQUIPMENT	390	0.54	5.61	26.67
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS AND INSTALLERS	30	0.04	29.67	20.00
PRECISION INSTRUMENT REPAIRERS	580	0.81	5.47	20.00
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	260	0.36	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	500	0.69	N.A.	N.A.
CARPENTERS	90	0.12	2.76	26.67
ELECTRICIANS	300	0.42	3.20	46.67
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	50	0.07	6.56	16.67
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	60	0.08	3.99	13.33
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	20	0.02	10.38	6.67

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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PRECISION PRODUCTION OCCUPATIONS	4,070	5.68	N.A.	N.A.
TOOL AND DIE MAKERS	1,000	1.40	5.08	60.00
MACHINISTS	1,600	2.25	10.83	80.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	430	0.60	11.67	50.00
PRECISION LAYOUT WORKERS-METAL	20	0.02	6.47	6.67
SHEET METAL OCCUPATIONS	570	0.80	14.29	26.67
ALL OTHER PRECISION METAL WORKERS	290	0.40	5.49	16.67
PATTERN AND MODEL MAKERS-WOOD	40	0.05	12.64	13.33
ALL OTHER PRECISION WORKERS	120	0.16	8.84	16.67
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	1,690	2.35	N.A.	N.A.
SAWING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	180	0.25	13.31	23.33
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	290	0.40	27.80	26.67
DRILLING AND BORING MACHINE TOOL SETTERS AND SET-OPERATORS-METAL AND PLASTIC	320	0.45	10.69	26.67
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	560	0.78	16.58	23.33
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	230	0.32	12.95	26.67
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	110	0.15	22.55	20.00
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	0.21	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	0.05	6.26	6.67
PRESS AND PRESS BRAKE MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	80	0.11	5.41	10.00
FORGING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	30	0.04	3.57	10.00
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	10	0.01	20.38	10.00
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	470	0.66	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	470	0.66	20.44	26.67
SELECTED METAL FABRICATING AND RELATED MACHINE SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	220	0.30	N.A.	N.A.
WELDING MACHINE SETTERS AND SET-UP OPERATORS	120	0.16	42.40	23.33
WELDING MACHINE OPERATORS AND TENDERS	100	0.14	19.25	13.33
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	680	0.92	N.A.	N.A.

SIC 372 AIRCRAFT AND PARTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS............	140	0.19	9.13	6.67
METAL MOLDING, COREMAKING, AND CASTING MACHINE SETTERS AND SET-UP OPERATORS.........................	110	0.15	25.15	16.67
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS...........................	40	0.05	9.19	3.33
ELECTROLYTIC PLATING AND COATING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC..............	150	0.21	21.81	20.00
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC......................	120	0.16	8.47	16.67
HEATING EQUIPMENT SETTERS AND SET-UP OPERATORS- METAL AND PLASTIC...........................	60	0.08	20.57	10.00
HEAT TREATING, ANNEALING, AND TEMPERING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC......................	60	0.08	9.86	16.67
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS..................	380	0.53	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS................................	320	0.45	4.55	10.00
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS............	60	0.08	10.36	10.00
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC.......................	1,110	1.54	N.A.	N.A.
PAINTERS-TRANSPORTATION EQUIPMENT...................................	620	0.87	4.06	43.33
COATING, PAINTING, AND SPRAYING MACHINE SETTERS AND SET-UP OPERATORS.......................	60	0.08	16.62	16.67
CLEANING, WASHING, AND PICKLING EQUIPMENT OPERATORS AND TENDERS............................	190	0.26	45.86	20.00
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS.................	130	0.18	9.22	3.33
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC..........................	50	0.07	8.78	13.33
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC...............................	60	0.08	9.68	10.00
PRECISION ASSEMBLERS..	7,910	11.11	N.A.	N.A.
AIRCRAFT STRUCTURE, SURFACES, RIGGING, AND SYSTEMS ASSEMBLERS-PRECISION..........................	5,540	7.79	0.69	36.67
MACHINE BUILDERS AND OTHER PRECISION MACHINE ASSEMBLERS...............	900	1.26	10.55	23.33
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION.............	1,470	2.06	7.12	20.00
OTHER HANDWORKING OCCUPATIONS..	4,020	5.63	N.A.	N.A.
MACHINE ASSEMBLERS...	320	0.45	6.64	10.00
ELECTRICAL AND ELECTRONIC ASSEMBLERS................................	600	0.84	13.29	20.00
WELDERS AND CUTTERS..	340	0.47	7.11	56.67
SOLDERERS AND BRAZERS...	120	0.16	11.55	16.67
GRINDING AND POLISHING WORKERS-HAND....................................	320	0.45	30.14	30.00

SIC 372 AIRCRAFT AND PARTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	2,070	2.91	8.44	50.00
ALL OTHER HAND WORKERS	250	0.35	N.A.	N.A.
PLANT AND SYSTEM OCCUPATIONS	100	0.13	N.A.	N.A.
STATIONARY ENGINEERS	40	0.05	5.38	13.33
ALL OTHER PLANT AND SYSTEM OPERATORS	60	0.08	10.49	10.00
MOTOR VEHICLE OPERATORS	170	0.23	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	110	0.15	4.28	26.67
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	50	0.07	27.25	33.33
ALL OTHER MOTOR VEHICLE OPERATORS	10	0.01	6.06	10.00
ALL OTHER TRANSPORTATION AND RELATED WORKERS	110	0.15	4.83	20.00
MATERIAL MOVING EQUIPMENT OPERATORS	390	0.54	N.A.	N.A.
CRANE AND TOWER OPERATORS	180	0.25	6.14	10.00
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	210	0.29	5.07	13.33
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	2,770	3.87	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	140	0.19	15.50	20.00
HELPERS-CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS	90	0.12	13.09	6.67
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	700	0.98	5.24	40.00
HAND PACKERS AND PACKAGERS	530	0.74	6.33	16.67
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	1,310	1.84	5.78	56.67

SIC 373 SHIP AND BOAT BUILDING AND REPAIRING
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	4,830	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	300	6.16	N.A.	N.A.
FINANCIAL MANAGERS	10	0.20	16.22	24.14
PURCHASING MANAGERS	20	0.41	22.86	24.14
INDUSTRIAL PRODUCTION MANAGERS	30	0.61	32.85	27.59
GENERAL MANAGERS AND TOP EXECUTIVES	150	3.09	21.29	62.07
ALL OTHER MANAGERS AND ADMINISTRATORS	90	1.85	N.A.	N.A.
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	70	1.42	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.20	41.21	20.69
COST ESTIMATORS	10	0.20	12.70	17.24
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.20	N.A.	N.A.
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	10	0.20	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	0.61	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	30	0.61	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	330	6.76	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	40	0.82	31.23	34.48
SECRETARIES	60	1.23	20.60	55.17
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	1.03	25.05	44.83
PAYROLL AND TIMEKEEPING CLERKS	20	0.41	23.50	24.14
GENERAL OFFICE CLERKS	30	0.61	37.22	34.48
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	90	1.84	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	60	1.23	31.61	34.48
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	10	0.20	38.81	13.79
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.41	N.A.	N.A.
SERVICE OCCUPATIONS	50	1.02	N.A.	N.A.
GUARDS AND WATCH GUARDS	30	0.61	40.90	17.24
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.41	45.95	17.24
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,050	83.39	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	140	2.87	N.A.	N.A.

SIC 373 SHIP AND BOAT BUILDING AND REPAIRING

REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	30	0.61	31.77	20.69
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	110	2.26	19.20	44.83
MECHANICS, INSTALLERS, AND REPAIRERS	240	4.94	N.A.	N.A.
AUTOMOTIVE MECHANICS	10	0.20	47.24	10.34
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	230	4.74	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	540	11.10	N.A.	N.A.
CARPENTERS	160	3.29	47.07	31.03
ELECTRICIANS	80	1.64	37.80	20.69
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	160	3.29	31.64	20.69
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	140	2.88	41.74	10.34
PRECISION PRODUCTION OCCUPATIONS	840	17.30	N.A.	N.A.
MACHINISTS	320	6.59	35.10	24.14
SHIPFITTERS	300	6.18	34.22	17.24
ALL OTHER PRECISION METAL WORKERS	170	3.50	45.30	3.45
ALL OTHER PRECISION WOODWORKERS	50	1.03	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	50	1.03	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	50	1.03	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	210	4.32	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	60	1.23	44.24	10.34
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	150	3.09	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	1,290	26.59	N.A.	N.A.
WELDERS AND CUTTERS	730	15.05	19.43	41.38
ALL OTHER HAND WORKERS	560	11.54	N.A.	N.A.
MOTOR VEHICLE OPERATORS	50	1.03	N.A.	N.A.
ALL OTHER MOTOR VEHICLE OPERATORS	50	1.03	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	50	1.02	N.A.	N.A.
CRANE AND TOWER OPERATORS	30	0.61	28.95	13.79
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.41	45.30	3.45
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	470	9.69	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	470	9.69	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	170	3.50	N.A.	N.A.

SIC 374 RAILROAD EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,150	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	60	2.82	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	0.94	12.21	69.23
GENERAL MANAGERS AND TOP EXECUTIVES	20	0.94	15.92	69.23
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	60	2.82	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.47	12.49	53.85
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	2.35	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	10	0.47	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	130	6.11	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.94	11.22	53.85
SECRETARIES	20	0.94	12.45	84.62
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	0.94	16.08	53.85
GENERAL OFFICE CLERKS	20	0.94	17.98	46.15
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	30	1.41	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.47	13.99	38.46
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	10	0.47	12.66	38.46
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	10	0.47	N.A.	N.A.
SERVICE OCCUPATIONS	30	1.41	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.94	9.32	46.15
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,860	87.61	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	140	6.59	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	50	2.35	18.87	46.15
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	90	4.24	11.52	53.85
PRECISION INSPECTORS, TESTERS, AND GRADERS	40	1.88	13.93	46.15
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	30	1.41	13.35	23.08
TRANSPORTATION INSPECTORS	30	1.41	15.48	30.77

SIC 374 RAILROAD EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	570	26.86	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	1.41	13.03	46.15
MAINTENANCE REPAIRERS-GENERAL UTILITY	50	2.35	29.71	38.46
AUTOMOTIVE MECHANICS	30	1.41	4.31	23.08
RAIL CAR REPAIRERS	440	20.75	13.71	46.15
ELECTRICAL INSTALLERS AND REPAIRERS-TRANSPORTATION EQUIPMENT	20	0.94	33.28	15.38
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	40	1.88	N.A.	N.A.
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	40	1.88	45.11	15.38
PRECISION PRODUCTION OCCUPATIONS	60	2.82	N.A.	N.A.
MACHINISTS	40	1.88	34.99	23.08
ALL OTHER PRECISION WORKERS	20	0.94	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	60	2.82	N.A.	N.A.
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	40	1.88	2.45	23.08
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.94	10.00	15.38
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	0.94	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	10	0.47	11.54	15.38
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	10	0.47	33.63	7.69
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	90	4.24	N.A.	N.A.
PAINTERS-TRANSPORTATION EQUIPMENT	20	0.94	21.75	23.08
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	70	3.30	5.73	15.38
OTHER HANDWORKING OCCUPATIONS	530	24.99	N.A.	N.A.
WELDERS AND CUTTERS	510	24.05	6.82	69.23
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	20	0.94	31.98	7.69
MATERIAL MOVING EQUIPMENT OPERATORS	40	1.88	N.A.	N.A.
CRANE AND TOWER OPERATORS	20	0.94	17.47	30.77
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	20	0.94	6.97	38.46
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	130	6.12	N.A.	N.A.
HELPERS-MECHANIC AND REPAIRER	40	1.88	24.86	15.38
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	30	1.41	19.21	23.08
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	60	2.83	14.54	46.15
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	80	3.77	N.A.	N.A.

SIC 376 GUIDED MISSILES, SPACE VEHICLES, PARTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,170	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	120	5.52	N.A.	N.A.
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	20	0.92	39.13	0.00
ADMINISTRATIVE SERVICES MANAGERS	20	0.92	2.80	0.00
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	20	0.92	7.60	0.00
GENERAL MANAGERS AND TOP EXECUTIVES	10	0.46	6.20	0.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	580	26.68	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	40	1.84	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.92	5.36	0.00
BUDGET ANALYSTS	20	0.92	6.96	66.67
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	20	0.92	3.21	0.00
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	20	0.92	12.55	0.00
COST ESTIMATORS	20	0.92	36.48	66.67
ENGINEERS	270	12.42	N.A.	N.A.
METALLURGISTS; AND METALLURGICAL, CERAMIC, AND MATERIALS ENGINEERS	10	0.46	41.77	33.33
CHEMICAL ENGINEERS	40	1.84	8.04	66.67
CIVIL ENGINEERS-INCLUDING TRAFFIC	40	1.84	19.09	66.67
ELECTRICAL AND ELECTRONIC ENGINEERS	40	1.84	3.35	0.00
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	20	0.92	7.35	0.00
SAFETY ENGINEERS-EXCEPT MINING	10	0.46	30.17	66.67
ALL OTHER ENGINEERS	110	5.06	6.94	0.00
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	90	4.14	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	30	1.38	17.73	0.00
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	60	2.76	48.19	66.67
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	20	0.92	N.A.	N.A.
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	20	0.92	42.13	33.33
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	60	2.76	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	40	1.84	26.65	0.00
COMPUTER PROGRAMMERS	20	0.92	45.53	0.00
SALES AND RELATED OCCUPATIONS	50	2.30	N.A.	N.A.
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	0.92	28.23	66.67
ALL OTHER SALES AND RELATED WORKERS	30	1.38	43.27	66.67

SIC 376 GUIDED MISSILES, SPACE VEHICLES, PARTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	230	10.58	N.A.	N.A.
SECRETARIES	60	2.76	11.32	0.00
GENERAL OFFICE CLERKS	30	1.38	13.32	0.00
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	10	0.46	N.A.	N.A.
ALL OTHER OFFICE MACHINE OPERATORS	10	0.46	45.95	33.33
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	2.30	N.A.	N.A.
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	20	0.92	6.38	66.67
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	10	0.46	21.12	0.00
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.92	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	80	3.68	8.04	66.67
SERVICE OCCUPATIONS	50	2.30	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	10	0.46	33.87	66.67
GUARDS AND WATCH GUARDS	20	0.92	31.20	66.67
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,140	52.48	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	60	2.76	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	60	2.76	28.63	0.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	110	5.06	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	50	2.30	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	30	1.38	9.38	0.00
ELECTRONIC REPAIRERS-COMMERCIAL AND INDUSTRIAL EQUIPMENT	20	0.92	10.39	66.67
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.92	N.A.	N.A.
ELECTRICIANS	20	0.92	42.13	33.33
PRECISION PRODUCTION OCCUPATIONS	120	5.52	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	120	5.52	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	10	0.46	N.A.	N.A.
MILLING AND PLANING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	10	0.46	41.77	33.33
NUMERICAL AND COMBINATION MACHINE TOOL SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	30	1.38	N.A.	N.A.
NUMERICAL CONTROL MACHINE TOOL OPERATORS AND TENDERS-METAL AND PLASTIC	30	1.38	42.55	33.33
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	30	1.38	N.A.	N.A.

SIC 376 GUIDED MISSILES, SPACE VEHICLES, PARTS
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	10	0.46	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	20	0.92	38.29	33.33
PRECISION ASSEMBLERS	350	16.12	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	350	16.12	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	260	11.98	N.A.	N.A.
WELDERS AND CUTTERS	10	0.46	41.77	33.33
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	250	11.52	3.39	0.00
MOTOR VEHICLE OPERATORS	20	0.92	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	0.92	8.97	0.00
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	80	3.68	N.A.	N.A.

SIC 379 MISCELLANEOUS TRANSPORTATION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	1,270	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	110	8.58	N.A.	N.A.
ALL OTHER ADMINISTRATIVE MANAGERS	20	1.56	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	20	1.56	17.94	50.00
GENERAL MANAGERS AND TOP EXECUTIVES	70	5.46	37.81	87.50
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	20	1.56	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	10	0.78	27.60	31.25
SALES AND RELATED OCCUPATIONS	50	3.90	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	20	1.56	49.39	31.25
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	120	9.36	N.A.	N.A.
SECRETARIES	20	1.56	27.59	56.25
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	20	1.56	42.71	50.00
GENERAL OFFICE CLERKS	20	1.56	46.27	37.50
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	20	1.56	N.A.	N.A.
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	20	1.56	41.80	43.75
SERVICE OCCUPATIONS	10	0.78	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	960	74.95	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	50	3.90	N.A.	N.A.
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	50	3.90	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	1.56	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	20	1.56	N.A.	N.A.
ALL OTHER CONSTRUCTION AND EXTRACTIVE WORKERS-EXCEPT HELPERS AND MATERIAL MOVING	20	1.56	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	30	2.34	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	20	1.56	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	10	0.78	N.A.	N.A.

SIC 379 MISCELLANEOUS TRANSPORTATION EQUIPMENT
REFERENCE DATE : JUNE 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL-AND PLASTIC	20	1.56	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	1.56	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	610	47.64	N.A.	N.A.
WELDERS AND CUTTERS	140	10.93	41.44	62.50
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	470	36.71	39.51	43.75
MOTOR VEHICLE OPERATORS	20	1.56	N.A.	N.A.
TRUCK DRIVERS-HEAVY AND TRACTOR TRAILER	20	1.56	48.37	43.75
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	50	3.90	N.A.	N.A.
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	50	3.90	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	140	10.93	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 38 - MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; hydrological, hydrographic, meteorological, and geophysical equipment; search, detection, navigation, and guidance systems and equipment; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

SIC 381 - SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS, INSTRUMENTS, AND EQUIPMENT

Establishments that are primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments such as radar systems and equipment; sonar systems and equipment; and aircraft and missile control systems and equipment are in this industry.

SIC 384 - SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

This industry group includes establishments primarily engaged in manufacturing surgical and medical instruments and apparatus; orthopedic, prosthetic, and surgical appliances and supplies; dental equipment and supplies; X-ray apparatus and tubes and related irradiation apparatus; and electromedical and electrotherapeutic apparatus.

SIC 385 - OPHTHALMIC GOODS

This industry group includes establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses.

SIC 38 INSTRUMENTS AND RELATED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	37,460	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	3,010	8.00	N.A.	N.A.
FINANCIAL MANAGERS	270	0.72	13.80	62.07
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	100	0.26	19.92	41.38
PURCHASING MANAGERS	120	0.32	18.40	42.53
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	350	0.93	18.71	58.62
ADMINISTRATIVE SERVICES MANAGERS	80	0.21	23.54	18.39
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	650	1.73	15.80	44.83
INDUSTRIAL PRODUCTION MANAGERS	510	1.36	10.92	68.97
GENERAL MANAGERS AND TOP EXECUTIVES	650	1.73	16.35	82.76
ALL OTHER MANAGERS AND ADMINISTRATORS	280	0.74	21.77	26.44
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	11,380	30.26	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	340	0.89	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	280	0.74	13.89	44.83
BUDGET ANALYSTS	20	0.05	22.28	8.05
ALL OTHER FINANCIAL SPECIALISTS	40	0.10	40.86	8.05
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	360	0.96	15.99	56.32
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	80	0.21	24.09	21.84
COST ESTIMATORS	80	0.21	25.93	13.79
ENGINEERS	4,250	11.33	N.A.	N.A.
CHEMICAL ENGINEERS	140	0.37	44.91	8.05
ELECTRICAL AND ELECTRONIC ENGINEERS	2,730	7.28	9.88	45.98
MECHANICAL ENGINEERS	450	1.20	16.81	37.93
ALL OTHER ENGINEERS	930	2.48	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	3,460	9.22	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	2,090	5.57	19.12	37.93
DRAFTERS	660	1.76	19.88	51.72
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	710	1.89	12.60	9.20
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	110	0.29	N.A.	N.A.
PHYSICAL SCIENTISTS	50	0.13	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	50	0.13	48.46	4.60
LIFE SCIENTISTS	110	0.29	31.73	3.45
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	230	0.61	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	110	0.29	35.05	4.60
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	120	0.32	28.81	3.45

SIC 38   INSTRUMENTS AND RELATED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER NATURAL SCIENTISTS AND RELATED WORKERS	20	0.05	N.A.	N.A.
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,310	3.48	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	1,000	2.66	5.45	25.29
COMPUTER PROGRAMMERS	290	0.77	39.97	26.44
COMPUTER PROGRAMMER AIDES	20	0.05	44.61	8.05
MATHEMATICAL SCIENTISTS AND RELATED OCCUPATIONS	10	0.02	N.A.	N.A.
ALL OTHER MATHEMATICAL SCIENTISTS AND RELATED WORKERS	10	0.02	N.A.	N.A.
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	300	0.79	N.A.	N.A.
OPTICIANS-DISPENSING AND MEASURING	200	0.53	40.57	4.60
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	100	0.26	44.92	9.20
TECHNICAL WRITERS	150	0.40	14.84	19.54
DESIGNERS-EXCEPT INTERIOR DESIGNERS	110	0.29	47.75	12.64
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	520	1.38	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	1,240	3.29	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	130	0.34	29.41	27.59
SALES ENGINEERS	160	0.42	49.47	19.54
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	600	1.60	34.49	33.33
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	180	0.48	48.87	12.64
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	5,470	14.53	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	320	0.85	21.02	47.13
ADJUSTMENT CLERKS	170	0.45	28.33	18.39
SECRETARIES	1,040	2.77	10.51	66.67
RECEPTIONISTS AND INFORMATION CLERKS	90	0.24	24.00	35.63
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	60	0.16	40.18	13.79
TYPISTS-WORD PROCESSING EQUIPMENT	100	0.26	36.87	16.09
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	70	0.18	17.28	21.84
FILE CLERKS	90	0.24	26.00	19.54
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	220	0.58	30.43	29.89
PROCUREMENT CLERKS	120	0.32	20.68	32.18
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	530	1.41	10.67	63.22
PAYROLL AND TIMEKEEPING CLERKS	90	0.24	22.94	39.08
BILLING, COST AND RATE CLERKS	90	0.24	38.63	22.99
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	340	0.90	N.A.	N.A.

SIC 38 INSTRUMENTS AND RELATED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	240	0.64	13.62	29.89
DATA ENTRY KEYERS-EXCEPT COMPOSING	100	0.26	22.27	18.39
SWITCHBOARD OPERATORS	110	0.29	34.11	25.29
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	1,180	3.14	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	360	0.96	17.03	39.08
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	350	0.93	19.46	50.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	470	1.25	14.68	60.92
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	850	2.26	N.A.	N.A.
SERVICE OCCUPATIONS	380	1.00	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	30	0.08	48.30	8.05
GUARDS AND WATCH GUARDS	60	0.16	11.44	8.05
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	250	0.66	15.20	33.33
ALL OTHER CLEANING AND BUILDING SERVICE WORKERS-EXCEPT PRIVATE HOUSEHOLD	20	0.05	48.20	3.45
ALL OTHER SERVICE WORKERS	20	0.05	31.53	3.45
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	15,980	42.52	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	1,280	3.41	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	110	0.29	31.45	18.39
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	1,020	2.72	15.20	70.11
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	150	0.40	N.A.	N.A.
PRECISION INSPECTORS, TESTERS, AND GRADERS	410	1.09	46.65	25.29
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	940	2.50	20.32	41.38
MECHANICS, INSTALLERS, AND REPAIRERS	900	2.40	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	180	0.48	23.31	13.79
MAINTENANCE REPAIRERS-GENERAL UTILITY	150	0.40	24.00	27.59
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	570	1.52	N.A.	N.A.
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	70	0.18	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	20	0.05	N.A.	N.A.
ELECTRICIANS	50	0.13	27.37	11.49
PRECISION PRODUCTION OCCUPATIONS	2,220	5.90	N.A.	N.A.
TOOL AND DIE MAKERS	100	0.26	30.03	17.24

SIC 38   INSTRUMENTS AND RELATED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MACHINISTS	650	1.73	38.18	40.23
SHEET METAL OCCUPATIONS	140	0.37	40.09	14.94
ALL OTHER PRECISION METAL WORKERS	110	0.29	N.A.	N.A.
PRECISION OPTICAL GOODS OCCUPATIONS	840	2.24	17.09	16.09
MEDICAL APPLIANCE MAKERS	260	0.69	46.36	5.75
ALL OTHER PRECISION WORKERS	120	0.32	60.15	4.60
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	190	0.50	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	0.16	42.32	5.75
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	130	0.34	48.99	5.75
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	710	1.89	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	320	0.85	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	390	1.04	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	190	0.50	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	190	0.50	44.56	6.90
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	740	1.97	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	80	0.21	34.22	6.90
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	660	1.76	N.A.	N.A.
PRECISION ASSEMBLERS	2,360	6.29	N.A.	N.A.
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	480	1.28	38.96	11.49
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	1,880	5.01	20.14	31.03
OTHER HANDWORKING OCCUPATIONS	4,480	11.93	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	1,120	2.98	40.54	21.84
PAINTING, COATING, AND DECORATING WORKERS-HAND	60	0.16	49.88	11.49
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	2,180	5.81	25.83	27.59
ALL OTHER HAND WORKERS	1,120	2.98	N.A.	N.A.
MOTOR VEHICLE OPERATORS	70	0.18	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	30	0.08	37.14	12.64
ALL OTHER MOTOR VEHICLE OPERATORS	40	0.10	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	150	0.40	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	150	0.40	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	860	2.29	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	420	1.12	12.88	16.09

SIC 38   INSTRUMENTS AND RELATED PRODUCTS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
HAND PACKERS AND PACKAGERS	170	0.45	38.02	9.20
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	270	0.72	11.86	9.20
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	410	1.09	N.A.	N.A.

SIC 381   SEARCH AND NAVIGATION EQUIPMENT
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	11,450	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	770	6.67	N.A.	N.A.
FINANCIAL MANAGERS	50	0.43	3.38	92.86
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.34	11.54	78.57
ADMINISTRATIVE SERVICES MANAGERS	20	0.17	7.24	50.00
ALL OTHER ADMINISTRATIVE MANAGERS	360	3.13	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	100	0.87	12.69	85.71
GENERAL MANAGERS AND TOP EXECUTIVES	110	0.95	9.37	78.57
ALL OTHER MANAGERS AND ADMINISTRATORS	90	0.78	15.38	50.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	6,010	52.31	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	130	1.12	N.A.	N.A.
BUDGET ANALYSTS	10	0.08	27.44	28.57
ALL OTHER FINANCIAL SPECIALISTS	120	1.04	42.45	14.29
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	110	0.95	8.27	71.43
COST ESTIMATORS	50	0.43	7.51	21.43
ALL OTHER MANAGEMENT SUPPORT WORKERS	80	0.69	24.41	35.71
ENGINEERS	2,330	20.30	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	1,830	15.95	2.78	78.57
COMPUTER ENGINEERS	140	1.22	8.39	57.14
MECHANICAL ENGINEERS	150	1.30	16.03	64.29
ALL OTHER ENGINEERS	210	1.83	25.22	35.71
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	2,130	18.55	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	1,290	11.24	3.86	85.71
DRAFTERS	270	2.35	5.36	92.86
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	570	4.96	2.51	21.43
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	1,030	8.97	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	860	7.49	1.43	50.00
COMPUTER PROGRAMMERS	170	1.48	40.94	42.86
TECHNICAL WRITERS	100	0.87	7.30	35.71
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	50	0.43	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	60	0.52	N.A.	N.A.
ALL OTHER SALES AND RELATED WORKERS	60	0.52	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,590	13.80	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	60	0.52	7.81	57.14

SIC 381 SEARCH AND NAVIGATION EQUIPMENT
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SECRETARIES	390	3.40	2.48	92.86
RECEPTIONISTS AND INFORMATION CLERKS	20	0.17	18.68	42.86
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	30	0.26	4.98	42.86
FILE CLERKS	30	0.26	6.75	21.43
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.26	33.27	28.57
PROCUREMENT CLERKS	30	0.26	8.90	50.00
PAYROLL AND TIMEKEEPING CLERKS	20	0.17	13.97	57.14
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	130	1.11	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	80	0.69	1.73	42.86
DATA ENTRY KEYERS-EXCEPT COMPOSING	40	0.34	4.35	28.57
ALL OTHER OFFICE MACHINE OPERATORS	10	0.08	9.54	14.29
SWITCHBOARD OPERATORS	20	0.17	15.15	50.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	240	2.08	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	100	0.87	7.87	64.29
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	60	0.52	10.07	78.57
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	0.43	13.06	78.57
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	30	0.26	39.66	21.43
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	590	5.14	N.A.	N.A.
SERVICE OCCUPATIONS	160	1.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SERVICE	20	0.17	0.00	14.29
GUARDS AND WATCH GUARDS	40	0.34	7.80	21.43
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	80	0.69	8.21	50.00
ALL OTHER SERVICE WORKERS	20	0.17	31.53	21.43
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	2,860	24.87	N.A.	N.A.
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	240	2.09	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	130	1.12	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	50	0.43	0.00	14.29
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	80	0.69	0.00	14.29
PRECISION PRODUCTION OCCUPATIONS	160	1.38	N.A.	N.A.
SHEET METAL OCCUPATIONS	50	0.43	47.88	35.71
ALL OTHER PRECISION METAL WORKERS	110	0.95	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.17	N.A.	N.A.
LATHE AND TURNING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.17	0.00	7.14
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	310	2.70	N.A.	N.A.

SIC 381 SEARCH AND NAVIGATION EQUIPMENT
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	310	2.70	N.A.	N.A.
PRECISION ASSEMBLERS	1,130	9.84	N.A.	N.A.
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS-PRECISION	20	0.17	24.76	7.14
ALL OTHER PRECISION ASSEMBLERS-METAL	1,110	9.67	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	260	2.26	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	210	1.83	8.13	28.57
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	50	0.43	17.16	21.43
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	240	2.09	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	70	0.61	24.62	14.29
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	170	1.48	0.00	14.29
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	370	3.22	N.A.	N.A.

SIC 384 MEDICAL INSTRUMENTS AND SUPPLIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	11,560	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,000	8.58	N.A.	N.A.
FINANCIAL MANAGERS	110	0.94	18.67	67.86
PERSONNEL, TRAINING, AND LABOR RELATIONS MANAGERS	30	0.25	15.80	46.43
PURCHASING MANAGERS	30	0.25	15.15	46.43
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	130	1.12	22.33	53.57
ADMINISTRATIVE SERVICES MANAGERS	20	0.17	36.76	14.29
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCES MANAGERS	130	1.12	23.06	46.43
INDUSTRIAL PRODUCTION MANAGERS	210	1.81	15.67	71.43
GENERAL MANAGERS AND TOP EXECUTIVES	230	1.98	13.63	92.86
ALL OTHER MANAGERS AND ADMINISTRATORS	110	0.94	21.46	32.14
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	1,980	16.97	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	90	0.77	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	70	0.60	16.28	46.43
ALL OTHER FINANCIAL SPECIALISTS	20	0.17	44.34	10.71
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	100	0.86	14.03	57.14
PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	30	0.25	19.14	25.00
ENGINEERS	540	4.64	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERS	190	1.64	42.34	25.00
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	110	0.94	28.44	35.71
MECHANICAL ENGINEERS	150	1.29	33.80	35.71
ALL OTHER ENGINEERS	90	0.77	37.93	21.43
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	380	3.26	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS AND TECHNOLOGISTS	240	2.07	41.77	28.57
INDUSTRIAL ENGINEERING TECHNICIANS AND TECHNOLOGISTS	40	0.34	47.92	7.14
DRAFTERS	60	0.51	17.01	42.86
ALL OTHER ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	40	0.34	N.A.	N.A.
NATURAL SCIENTISTS AND RELATED OCCUPATIONS	110	0.94	N.A.	N.A.
PHYSICAL SCIENTISTS	40	0.34	N.A.	N.A.
CHEMISTS-EXCEPT BIOCHEMISTS	40	0.34	38.17	7.14
LIFE SCIENTISTS	110	0.94	31.73	10.71
PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	180	1.55	N.A.	N.A.
CHEMICAL TECHNICIANS AND TECHNOLOGISTS-EXCEPT HEALTH	80	0.69	43.51	10.71
ALL OTHER PHYSICAL AND LIFE SCIENCES TECHNICIANS AND TECHNOLOGISTS	100	0.86	33.38	7.14
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	80	0.67	N.A.	N.A.

SIC 384 MEDICAL INSTRUMENTS AND SUPPLIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	40	0.34	35.14	7.14
COMPUTER PROGRAMMERS	30	0.25	32.28	21.43
COMPUTER PROGRAMMER AIDES	10	0.08	47.25	10.71
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	40	0.34	N.A.	N.A.
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	40	0.34	25.86	17.86
TECHNICAL WRITERS	20	0.17	31.20	10.71
DESIGNERS-EXCEPT INTERIOR DESIGNERS	30	0.25	27.29	17.86
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	340	2.93	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	530	4.56	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	70	0.60	38.43	32.14
SALES REPRESENTATIVES-SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	330	2.84	31.22	39.29
ALL OTHER SALES AND RELATED WORKERS	130	1.12	34.27	17.86
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1,630	13.96	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	120	1.03	25.63	46.43
ADJUSTMENT CLERKS	120	1.03	31.53	32.14
SECRETARIES	340	2.93	14.88	78.57
RECEPTIONISTS AND INFORMATION CLERKS	20	0.17	26.35	32.14
TYPISTS-WORD PROCESSING EQUIPMENT	20	0.17	40.00	10.71
PERSONNEL CLERKS-EXCEPT PAYROLL AND TIMEKEEPING	20	0.17	19.45	25.00
FILE CLERKS	20	0.17	44.29	17.86
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	30	0.25	43.01	14.29
PROCUREMENT CLERKS	40	0.34	22.23	28.57
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	190	1.64	13.39	60.71
PAYROLL AND TIMEKEEPING CLERKS	30	0.25	15.83	46.43
BILLING, COST AND RATE CLERKS	30	0.25	26.56	21.43
GENERAL OFFICE CLERKS	60	0.51	21.51	42.86
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	60	0.50	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	30	0.25	28.32	17.86
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.25	18.83	17.86
SWITCHBOARD OPERATORS	10	0.08	30.50	14.29
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	400	3.44	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	110	0.94	21.03	32.14
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	80	0.69	32.44	35.71

SIC 384 MEDICAL INSTRUMENTS AND SUPPLIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	190	1.64	21.34	57.14
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	20	0.17	33.74	17.86
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	120	1.03	N.A.	N.A.
SERVICE OCCUPATIONS	130	1.11	N.A.	N.A.
GUARDS AND WATCH GUARDS	20	0.17	26.42	10.71
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	90	0.77	12.45	39.29
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	6,290	54.19	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	330	2.83	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	60	0.51	31.55	17.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	240	2.07	17.30	67.86
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	10	0.08	29.24	10.71
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	20	0.17	47.63	10.71
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	460	3.97	27.80	42.86
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	30	0.25	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	490	4.22	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	0.34	47.97	10.71
MAINTENANCE REPAIRERS-GENERAL UTILITY	100	0.86	19.75	42.86
ALL OTHER MECHANICS, INSTALLERS, AND REPAIRERS	350	3.02	38.21	7.14
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	20	0.17	N.A.	N.A.
ELECTRICIANS	20	0.17	40.30	14.29
PRECISION PRODUCTION OCCUPATIONS	510	4.39	N.A.	N.A.
ALL OTHER PRECISION METAL WORKERS	250	2.15	N.A.	N.A.
MEDICAL APPLIANCE MAKERS	260	2.24	46.36	17.86
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	60	0.51	N.A.	N.A.
PUNCHING MACHINE SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	60	0.51	47.51	14.29
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	380	3.27	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	160	1.38	N.A.	N.A.

SIC 384 MEDICAL INSTRUMENTS AND SUPPLIES
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	220	1.89	N.A.	N.A.
SELECTED TEXTILE AND RELATED SETTERS, OPERATORS, AND OTHER RELATED OCCUPATIONS	190	1.64	N.A.	N.A.
SEWING MACHINE OPERATORS-NON-GARMENT	190	1.64	44.56	21.43
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	520	4.48	N.A.	N.A.
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	60	0.51	43.47	14.29
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	460	3.97	40.87	32.14
PRECISION ASSEMBLERS	100	0.86	N.A.	N.A.
ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS-PRECISION	100	0.86	31.07	10.71
OTHER HANDWORKING OCCUPATIONS	2,670	23.05	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	300	2.59	49.19	10.71
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,370	11.83	31.02	39.29
ALL OTHER HAND WORKERS	1,000	8.63	N.A.	N.A.
MOTOR VEHICLE OPERATORS	40	0.34	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	20	0.17	41.61	17.86
ALL OTHER MOTOR VEHICLE OPERATORS	20	0.17	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	20	0.17	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	20	0.17	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	410	3.53	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	250	2.15	15.77	25.00
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	160	1.38	N.A.	N.A.
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	60	0.51	N.A.	N.A.

SIC 385 OPHTHALMIC GOODS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,140	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	130	6.12	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	10	0.47	24.98	23.08
INDUSTRIAL PRODUCTION MANAGERS	20	0.94	25.25	30.77
GENERAL MANAGERS AND TOP EXECUTIVES	60	2.83	47.60	76.92
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	270	12.72	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	20	0.94	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	20	0.94	45.65	23.08
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	20	0.94	N.A.	N.A.
SYSTEMS ANALYSTS-ELECTRONIC DATA PROCESSING	20	0.94	31.73	15.38
HEALTH PRACTITIONERS, TECHNOLOGISTS, TECHNICIANS, AND RELATED HEALTH OCCUPATIONS	210	9.90	N.A.	N.A.
ALL OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, AND TECHNICIANS	210	9.90	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	30	1.41	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	500	23.53	N.A.	N.A.
ADJUSTMENT CLERKS	20	0.94	29.79	15.38
SECRETARIES	20	0.94	28.30	30.77
FILE CLERKS	20	0.94	44.85	23.08
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	40	1.88	45.18	30.77
GENERAL OFFICE CLERKS	40	1.88	35.24	46.15
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	80	3.77	N.A.	N.A.
COMPUTER OPERATORS-EXCEPT PERIPHERAL EQUIPMENT	80	3.77	20.72	30.77
ALL OTHER COMMUNICATIONS EQUIPMENT OPERATORS	40	1.88	N.A.	N.A.
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	130	6.12	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	20	0.94	30.73	15.38
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	50	2.35	46.50	38.46
ALL OTHER MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING WORKERS	60	2.83	N.A.	N.A.
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	110	5.18	N.A.	N.A.
SERVICE OCCUPATIONS	10	0.47	N.A.	N.A.
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,200	56.57	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	100	4.71	N.A.	N.A.

SIC 385 OPHTHALMIC GOODS
REFERENCE DATE : APRIL 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	100	4.71	22.00	76.92
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	80	3.77	18.11	38.46
PRECISION PRODUCTION OCCUPATIONS	850	40.08	N.A.	N.A.
PRECISION OPTICAL GOODS OCCUPATIONS	750	35.37	18.04	0.00
ALL OTHER PRECISION WORKERS	100	4.71	N.A.	N.A.
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	20	0.94	N.A.	N.A.
ELECTROLYTIC PLATING AND COATING MACHINE OPERATORS AND TENDERS-METAL AND PLASTIC	20	0.94	30.12	15.38
MOTOR VEHICLE OPERATORS	10	0.47	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	10	0.47	43.68	23.08
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	140	6.60	N.A.	N.A.

INDUSTRY CHARACTERISTICS

SIC 39 - MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware, and plated ware; musical instruments; dolls, toys, games, and sporting and athletic goods; pens, pencils, and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

SIC 391 - JEWELRY, SILVERWARE, AND PLATED WARE

Establishments that are primarily engaged in manufacturing jewelry, precious metal; silverware, plated ware, and stainless steel ware; and jewelers' findings and materials, and lapidary work are in this industry.

SIC 394 - DOLLS, TOYS, GAMES AND SPORTING AND ATHLETIC GOODS

This industry group includes establishments primarily engaged in manufacturing dolls and stuffed toys; games, toys, and children's vehicles, except dolls and bicycles; and sporting and athletic goods, not elsewhere classified, such as fishing tackle, golf and tennis goods, and billiard and pool tables.

SIC 399 - MISCELLANEOUS MANUFACTURING INDUSTRIES

This industry group includes establishments primarily engaged in manufacturing brooms and brushes; signs and advertising specialties; burial caskets; linoleum, asphalted-felt-base, and other hard surface floor coverings, not elsewhere classified; and manufacturing industries, not elsewhere classified, such as hair work, tobacco pipes and cigarette holders, lamp shades, feathers, umbrellas, parasols, and canes.

SIC 39 MISCELLANEOUS MANUFACTURING INDUSTRIES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	15,710	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	1,350	8.56	N.A.	N.A.
FINANCIAL MANAGERS	40	0.25	38.99	12.98
PURCHASING MANAGERS	20	0.12	42.18	7.63
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	40	0.25	30.15	11.45
INDUSTRIAL PRODUCTION MANAGERS	370	2.35	14.54	45.04
GENERAL MANAGERS AND TOP EXECUTIVES	820	5.21	10.55	79.39
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	700	4.42	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	90	0.57	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	90	0.57	30.21	15.27
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	80	0.50	20.96	26.72
ENGINEERS	20	0.12	N.A.	N.A.
MECHANICAL ENGINEERS	20	0.12	45.88	5.34
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	140	0.89	N.A.	N.A.
DRAFTERS	140	0.89	32.25	16.79
DESIGNERS-EXCEPT INTERIOR DESIGNERS	210	1.33	19.77	22.90
ALL OTHER PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL WORKERS	160	1.01	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	900	5.71	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	40	0.25	41.04	9.16
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	680	4.32	16.61	37.40
ALL OTHER SALES AND RELATED WORKERS	180	1.14	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2,280	14.43	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	100	0.63	22.40	18.32
ADJUSTMENT CLERKS	70	0.44	33.65	6.11
SECRETARIES	710	4.51	9.36	62.60
RECEPTIONISTS AND INFORMATION CLERKS	40	0.25	34.52	12.21
TYPISTS-EXCEPT WORD PROCESSING EQUIPMENT	20	0.12	47.50	5.34
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	180	1.14	21.04	22.90
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	290	1.84	14.88	45.04
PAYROLL AND TIMEKEEPING CLERKS	30	0.19	29.42	12.98
GENERAL OFFICE CLERKS	250	1.59	20.23	29.77
ELECTRONIC DATA PROCESSING AND OTHER OFFICE MACHINE OCCUPATIONS	30	0.19	N.A.	N.A.
DATA ENTRY KEYERS-EXCEPT COMPOSING	30	0.19	47.02	6.87

SIC 39 MISCELLANEOUS MANUFACTURING INDUSTRIES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
SWITCHBOARD OPERATORS	20	0.12	37.05	8.40
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	440	2.78	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	70	0.44	29.25	10.69
STOCK CLERKS-STOCKROOM, WAREHOUSE, AND STORAGE YARD	80	0.50	39.29	10.69
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	290	1.84	18.28	45.80
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	0.63	N.A.	N.A.
SERVICE OCCUPATIONS	110	0.69	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	100	0.63	17.34	22.14
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	10,370	65.69	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	500	3.17	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-MECHANICS, INSTALLERS, AND REPAIRERS	20	0.12	41.92	9.92
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	480	3.05	11.00	48.09
PRECISION INSPECTORS, TESTERS, AND GRADERS	50	0.31	36.63	7.63
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	170	1.08	20.66	16.03
MECHANICS, INSTALLERS, AND REPAIRERS	190	1.20	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	40	0.25	29.49	7.63
MAINTENANCE REPAIRERS-GENERAL UTILITY	150	0.95	24.63	21.37
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	390	2.47	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	60	0.38	N.A.	N.A.
ELECTRICIANS	300	1.90	31.63	15.27
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	30	0.19	38.30	3.82
PRECISION PRODUCTION OCCUPATIONS	1,920	12.15	N.A.	N.A.
TOOL AND DIE MAKERS	100	0.63	19.59	8.40
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	60	0.38	30.01	6.87
JEWELERS AND SILVERSMITHS	210	1.33	28.49	9.16
PRECISION HAND OCCUPATIONS-JEWELRY AND RELATED PRODUCTS	600	3.81	14.20	10.69
PRECISION ETCHERS AND ENGRAVERS-HAND OR MACHINE	40	0.25	46.61	7.63
SHEET METAL OCCUPATIONS	260	1.65	34.60	13.74
ALL OTHER PRECISION METAL WORKERS	160	1.01	N.A.	N.A.
CABINETMAKERS AND BENCH CARPENTERS	120	0.76	41.85	5.34
ALL OTHER PRECISION PRINTING WORKERS	50	0.31	N.A.	N.A.

SIC 39 MISCELLANEOUS MANUFACTURING INDUSTRIES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
GEM AND DIAMOND OCCUPATIONS	20	0.12	20.54	1.53
ALL OTHER PRECISION WORKERS	300	1.90	N.A.	N.A.
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	160	1.01	N.A.	N.A.
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	70	0.44	6.43	2.29
MACHINE TOOL CUTTING OPERATORS AND TENDERS-METAL AND PLASTIC	90	0.57	45.08	6.11
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	110	0.69	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	110	0.69	42.78	8.40
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	360	2.28	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	60	0.38	44.23	6.11
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	270	1.71	23.64	6.11
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	30	0.19	35.62	5.34
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	360	2.28	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	160	1.01	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	200	1.27	N.A.	N.A.
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.06	N.A.	N.A.
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	10	0.06	0.00	0.76
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	130	0.82	N.A.	N.A.
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	130	0.82	41.68	9.92
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	200	1.27	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	570	3.59	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	110	0.69	34.76	7.63
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	40	0.25	41.59	3.05
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	70	0.44	30.17	6.11
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	100	0.63	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	30	0.19	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	220	1.39	40.25	6.87
PRECISION ASSEMBLERS	120	0.76	N.A.	N.A.

SIC 39 MISCELLANEOUS MANUFACTURING INDUSTRIES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER PRECISION ASSEMBLERS-METAL	120	0.76	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	3,850	24.45	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	260	1.65	37.06	6.11
WELDERS AND CUTTERS	140	0.89	35.79	10.69
SOLDERERS AND BRAZERS	100	0.63	10.63	3.82
CUTTERS AND TRIMMERS-HAND	50	0.31	40.45	5.34
PAINTING, COATING, AND DECORATING WORKERS-HAND	370	2.35	28.63	22.14
GRINDING AND POLISHING WORKERS-HAND	270	1.71	35.36	13.74
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	2,280	14.50	15.73	41.98
ALL OTHER HAND WORKERS	380	2.41	N.A.	N.A.
MOTOR VEHICLE OPERATORS	140	0.88	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	80	0.50	34.16	12.21
ALL OTHER MOTOR VEHICLE OPERATORS	60	0.38	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	60	0.37	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	50	0.31	34.14	3.05
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	10	0.06	0.00	0.76
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	870	5.52	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	150	0.95	43.49	4.58
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	220	1.39	15.45	15.27
HAND PACKERS AND PACKAGERS	500	3.18	27.78	14.50
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	210	1.33	N.A.	N.A.

SIC 391 JEWELRY, SILVERWARE, AND PLATED WARE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	2,300	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	170	7.28	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	50	2.14	28.74	40.00
GENERAL MANAGERS AND TOP EXECUTIVES	110	4.72	24.39	75.00
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	80	3.42	N.A.	N.A.
DESIGNERS-EXCEPT INTERIOR DESIGNERS	60	2.57	41.65	35.00
SALES AND RELATED OCCUPATIONS	110	4.71	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	60	2.57	33.46	25.00
ALL OTHER SALES AND RELATED WORKERS	50	2.14	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	540	23.12	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/ SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20	0.85	27.22	20.00
SECRETARIES	250	10.72	11.93	60.00
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	70	3.00	17.20	45.00
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	50	2.14	15.68	40.00
GENERAL OFFICE CLERKS	50	2.14	35.18	30.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	50	2.13	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.42	0.00	5.00
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	40	1.71	27.60	40.00
SERVICE OCCUPATIONS	30	1.28	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	30	1.28	26.96	25.00
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	1,370	58.69	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	70	3.00	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	70	3.00	15.98	30.00
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	60	2.57	35.00	30.00
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	10	0.42	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	10	0.42	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	10	0.42	0.00	10.00
PRECISION PRODUCTION OCCUPATIONS	840	36.02	N.A.	N.A.

SIC 391 JEWELRY, SILVERWARE, AND PLATED WARE
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOOL AND DIE MAKERS	70	3.00	25.40	35.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	20	0.85	41.38	15.00
JEWELERS AND SILVERSMITHS	210	9.01	28.49	60.00
PRECISION HAND OCCUPATIONS-JEWELRY AND RELATED PRODUCTS	520	22.31	16.22	55.00
GEM AND DIAMOND OCCUPATIONS	20	0.85	20.54	10.00
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	50	2.14	N.A.	N.A.
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	50	2.14	8.29	10.00
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	30	1.28	N.A.	N.A.
METAL MOLDING, COREMAKING, AND CASTING MACHINE OPERATORS AND TENDERS	30	1.28	35.62	35.00
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	60	2.57	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	60	2.57	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.85	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	20	0.85	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	170	7.28	N.A.	N.A.
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	10	0.42	27.73	10.00
ALL OTHER HAND WORKERS	160	6.86	N.A.	N.A.

SIC 394 TOYS AND SPORTING GOODS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	5,220	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	370	7.08	N.A.	N.A.
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.38	44.87	16.67
INDUSTRIAL PRODUCTION MANAGERS	110	2.11	29.68	63.33
GENERAL MANAGERS AND TOP EXECUTIVES	200	3.83	26.76	76.67
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	190	3.62	N.A.	N.A.
ACCOUNTANTS, AUDITORS, AND OTHER FINANCIAL SPECIALISTS	50	0.95	N.A.	N.A.
ACCOUNTANTS AND AUDITORS	50	0.95	39.21	30.00
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	30	0.57	39.77	40.00
ALL OTHER ENGINEERS AND RELATED WORKERS	60	1.15	N.A.	N.A.
SALES AND RELATED OCCUPATIONS	240	4.59	N.A.	N.A.
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	200	3.83	33.16	33.33
ALL OTHER SALES AND RELATED WORKERS	40	0.76	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	640	12.24	N.A.	N.A.
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	40	0.76	N.A.	N.A.
SECRETARIES	150	2.87	27.58	66.67
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	100	1.91	31.79	56.67
GENERAL OFFICE CLERKS	60	1.15	46.52	40.00
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	110	2.10	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	10	0.19	26.91	13.33
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	100	1.91	36.43	60.00
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	180	3.45	N.A.	N.A.
SERVICE OCCUPATIONS	20	0.38	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	20	0.38	31.68	26.67
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	3,760	72.01	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	160	3.07	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	160	3.07	18.25	56.67
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	70	1.34	31.39	33.33

SIC 394 TOYS AND SPORTING GOODS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
MECHANICS, INSTALLERS, AND REPAIRERS	80	1.53	N.A.	N.A.
MACHINERY MAINTENANCE MECHANICS	20	0.38	0.00	10.00
MAINTENANCE REPAIRERS-GENERAL UTILITY	60	1.15	35.75	36.67
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	30	0.57	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	30	0.57	N.A.	N.A.
PRECISION PRODUCTION OCCUPATIONS	220	4.19	N.A.	N.A.
TOOL AND DIE MAKERS	20	0.38	15.73	10.00
TOOL GRINDERS, FILERS, SHARPENERS, AND OTHER PRECISION GRINDERS	40	0.76	43.96	16.67
ALL OTHER PRECISION METAL WORKERS	90	1.72	N.A.	N.A.
ALL OTHER PRECISION WOODWORKERS	20	0.38	N.A.	N.A.
ALL OTHER PRECISION WORKERS	50	0.95	0.00	3.33
MACHINE TOOL CUTTING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	20	0.38	N.A.	N.A.
GRINDING, LAPPING, AND BUFFING MACHINE TOOL SETTERS AND SET-UP OPERATORS-METAL AND PLASTIC	20	0.38	0.00	3.33
SELECTED METAL AND PLASTIC PROCESSING MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	220	4.21	N.A.	N.A.
PLASTIC MOLDING AND CASTING MACHINE SETTERS AND SET-UP OPERATORS	50	0.95	49.88	16.67
PLASTIC MOLDING AND CASTING MACHINE OPERATORS AND TENDERS	170	3.26	22.56	13.33
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	230	4.41	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	110	2.11	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	120	2.30	N.A.	N.A.
MACHINE SETTERS, SET-UP OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	10	0.19	N.A.	N.A.
WOODWORKING MACHINE OPERATORS AND TENDERS-EXCEPT SAWING	10	0.19	0.00	3.33
ALL OTHER TEXTILE AND RELATED SETTERS, OPERATORS, AND WORKERS	100	1.91	N.A.	N.A.
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	200	3.82	N.A.	N.A.
COATING, PAINTING, AND SPRAYING MACHINE OPERATORS AND TENDERS	60	1.15	0.00	10.00
EXTRUDING, FORMING, PRESSING, AND COMPACTING MACHINE OPERATORS AND TENDERS	30	0.57	0.00	6.67
PACKAGING AND FILLING MACHINE OPERATORS AND TENDERS	50	0.95	38.64	16.67
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	60	1.15	N.A.	N.A.
PRECISION ASSEMBLERS	100	1.91	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	100	1.91	N.A.	N.A.

SIC 394 TOYS AND SPORTING GOODS
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
OTHER HANDWORKING OCCUPATIONS	1,670	32.03	N.A.	N.A.
SOLDERERS AND BRAZERS	90	1.72	0.00	3.33
GRINDING AND POLISHING WORKERS-HAND	140	2.68	43.39	13.33
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	1,270	24.37	23.44	70.00
ALL OTHER HAND WORKERS	170	3.26	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	50	0.95	N.A.	N.A.
INDUSTRIAL TRUCK AND TRACTOR OPERATORS	40	0.76	7.11	10.00
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	10	0.19	0.00	3.33
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	450	8.63	N.A.	N.A.
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	130	2.49	18.47	30.00
HAND PACKERS AND PACKAGERS	320	6.14	31.69	26.67
ALL OTHER PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING WORKERS	150	2.87	N.A.	N.A.

SIC 399 MISCELLANEOUS MANUFACTURES
REFERENCE DATE : MAY 12, 1989

OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TOTAL	7,190	100.00	-	-
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	700	9.72	N.A.	N.A.
FINANCIAL MANAGERS	30	0.41	44.29	16.95
MARKETING, ADVERTISING, AND PUBLIC RELATIONS MANAGERS	20	0.27	44.99	13.56
ALL OTHER ADMINISTRATIVE MANAGERS	30	0.41	N.A.	N.A.
INDUSTRIAL PRODUCTION MANAGERS	180	2.51	22.21	38.98
GENERAL MANAGERS AND TOP EXECUTIVES	430	5.99	14.08	81.36
PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL OCCUPATIONS	380	5.26	N.A.	N.A.
PURCHASING AGENTS-EXCEPT WHOLESALE AND RETAIL TRADE, AND FARM PRODUCTS	40	0.55	31.46	28.81
ALL OTHER MANAGEMENT SUPPORT WORKERS	60	0.83	N.A.	N.A.
ENGINEERING AND RELATED TECHNICIANS AND TECHNOLOGISTS	110	1.53	N.A.	N.A.
DRAFTERS	110	1.53	36.29	23.73
COMPUTER SCIENTISTS AND RELATED OCCUPATIONS	10	0.13	N.A.	N.A.
ALL OTHER COMPUTER SYSTEMS ANALYSTS, PROGRAMMERS, AND PROGRAMMER AIDES	10	0.13	48.34	1.69
DESIGNERS-EXCEPT INTERIOR DESIGNERS	130	1.81	22.37	32.20
SALES AND RELATED OCCUPATIONS	510	7.09	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-SALES AND RELATED OCCUPATIONS	30	0.41	41.70	13.56
SALES REPRESENTATIVES-EXCEPT SCIENTIFIC AND RELATED PRODUCTS AND SERVICES	380	5.29	23.10	49.15
ALL OTHER SALES AND RELATED WORKERS	100	1.39	N.A.	N.A.
CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	930	12.89	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS	50	0.69	33.54	20.34
ALL OTHER BANKING, SECURITY, FINANCE, AND CREDIT WORKERS	10	0.13	N.A.	N.A.
SECRETARIES	280	3.90	14.96	66.10
RECEPTIONISTS AND INFORMATION CLERKS	20	0.27	45.93	15.25
ORDER CLERKS-MATERIALS, MERCHANDISE, AND SERVICE	50	0.69	46.10	15.25
BOOKKEEPING, ACCOUNTING, AND AUDITING CLERKS	110	1.53	24.68	40.68
PAYROLL AND TIMEKEEPING CLERKS	20	0.27	38.11	15.25
GENERAL OFFICE CLERKS	110	1.53	31.96	23.73
SWITCHBOARD OPERATORS	10	0.13	48.01	11.86
MATERIAL RECORDING, SCHEDULING, DISPATCHING, AND DISTRIBUTING OCCUPATIONS	170	2.36	N.A.	N.A.
PRODUCTION, PLANNING, AND EXPEDITING CLERKS	50	0.69	44.50	15.25

SIC 399 MISCELLANEOUS MANUFACTURES
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
TRAFFIC, SHIPPING, AND RECEIVING CLERKS	120	1.67	30.13	40.68
ALL OTHER CLERICAL AND ADMINISTRATIVE SUPPORT WORKERS	100	1.39	N.A.	N.A.
SERVICE OCCUPATIONS	40	0.55	N.A.	N.A.
JANITORS AND CLEANERS-EXCEPT MAIDS AND HOUSEKEEPING CLEANERS	40	0.55	33.97	20.34
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING OCCUPATIONS	4,630	64.37	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED OCCUPATIONS	260	3.61	N.A.	N.A.
FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION AND OPERATING OCCUPATIONS	220	3.06	18.76	52.54
ALL OTHER FIRST LINE SUPERVISORS AND MANAGER/SUPERVISORS-PRODUCTION, CONSTRUCTION, MAINTENANCE, AND RELATED WORKERS	40	0.55	N.A.	N.A.
PRODUCTION INSPECTORS, TESTERS, GRADERS, SORTERS, SAMPLERS, AND WEIGHERS	30	0.41	49.33	5.08
ALL OTHER INSPECTORS, TESTERS, AND RELATED WORKERS	20	0.27	N.A.	N.A.
MECHANICS, INSTALLERS, AND REPAIRERS	80	1.11	N.A.	N.A.
MAINTENANCE REPAIRERS-GENERAL UTILITY	80	1.11	40.76	20.34
CONSTRUCTION TRADES AND EXTRACTIVE OCCUPATIONS-EXCEPT MATERIAL MOVING	350	4.86	N.A.	N.A.
ALL OTHER CARPENTRY AND RELATED WORKERS	20	0.27	N.A.	N.A.
ELECTRICIANS	300	4.18	32.24	28.81
PAINTERS AND PAPERHANGERS-CONSTRUCTION AND MAINTENANCE	30	0.41	38.30	8.47
PRECISION PRODUCTION OCCUPATIONS	650	9.05	N.A.	N.A.
SHEET METAL OCCUPATIONS	240	3.34	36.34	25.42
ALL OTHER PRECISION METAL WORKERS	100	1.39	N.A.	N.A.
ALL OTHER PRECISION WORKERS	310	4.32	N.A.	N.A.
SELECTED MACHINE FORMING SETTERS, OPERATORS, AND RELATED OCCUPATIONS-METAL AND PLASTIC	50	0.69	N.A.	N.A.
MACHINE FORMING OPERATORS AND TENDERS-METAL AND PLASTIC	50	0.69	44.45	6.78
ALL OTHER METAL AND PLASTIC MACHINE SETTERS, OPERATORS, AND RELATED OCCUPATIONS	290	4.03	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE SETTERS AND SET-UP OPERATORS	60	0.83	N.A.	N.A.
ALL OTHER METAL AND PLASTIC MACHINE OPERATORS AND TENDERS	230	3.20	N.A.	N.A.
SELECTED PRINTING, BINDING, AND RELATED OCCUPATIONS	110	1.53	N.A.	N.A.
SCREEN PRINTING MACHINE SETTERS AND SET-UP OPERATORS	110	1.53	45.18	15.25
OTHER MACHINE SETTERS, SET-UP OPERATORS, OPERATORS, AND TENDERS-EXCEPT METAL AND PLASTIC	350	4.86	N.A.	N.A.
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.27	N.A.	N.A.

SIC 399 MISCELLANEOUS MANUFACTURES
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OCCUPATION	EMPLOYMENT	PERCENT OF TOTAL EMPLOYMENT	RELATIVE ERROR (IN %)	ESTABLISHMENTS REPORTING OCCUPATION (%)
ALL OTHER MACHINE SETTERS AND SET-UP OPERATORS-EXCEPT METAL AND PLASTIC	20	0.27	N.A.	N.A.
ALL OTHER MACHINE OPERATORS AND TENDERS-EXCEPT METAL AND PLASTIC	310	4.32	N.A.	N.A.
PRECISION ASSEMBLERS	20	0.27	N.A.	N.A.
ALL OTHER PRECISION ASSEMBLERS-METAL	20	0.27	N.A.	N.A.
OTHER HANDWORKING OCCUPATIONS	1,810	25.22	N.A.	N.A.
ELECTRICAL AND ELECTRONIC ASSEMBLERS	260	3.62	37.06	13.56
WELDERS AND CUTTERS	110	1.53	31.41	15.25
PAINTING, COATING, AND DECORATING WORKERS-HAND	280	3.90	33.78	35.59
ASSEMBLERS AND FABRICATORS-EXCEPT MACHINE, ELECTRICAL, ELECTRONIC, AND PRECISION	880	12.27	22.48	35.59
ALL OTHER HAND WORKERS	280	3.90	N.A.	N.A.
MOTOR VEHICLE OPERATORS	110	1.52	N.A.	N.A.
TRUCK DRIVERS-LIGHT, INCLUDING DELIVERY AND ROUTE WORKERS	60	0.83	40.15	18.64
ALL OTHER MOTOR VEHICLE OPERATORS	50	0.69	N.A.	N.A.
MATERIAL MOVING EQUIPMENT OPERATORS	10	0.13	N.A.	N.A.
ALL OTHER MATERIAL MOVING EQUIPMENT OPERATORS	10	0.13	N.A.	N.A.
HELPERS, LABORERS, AND MATERIAL MOVERS, HAND-EXCLUDING AGRICULTURAL AND FORESTRY LABORERS	440	6.12	N.A.	N.A.
MACHINE FEEDERS AND OFFBEARERS	130	1.81	49.80	3.39
FREIGHT, STOCK, AND MATERIAL MOVERS-HAND	80	1.11	29.60	13.56
ALL OTHER HELPERS, LABORERS, AND MATERIAL MOVERS-HAND	230	3.20	N.A.	N.A.

GLOSSARY OF TERMS

ES-202, Quarterly Report of Employment and Wages: A listing of all employing units, within the state, covered under the Unemployment Insurance Law.

Establishment: An economic unit which produces goods or services. In most instances, each establishment is a single physical location and is engaged in one predominate type of economic activity for which an industry code is applicable. Establishments are also referred to as reporting units.

Standard Industrial Classification (SIC): The SIC is the classification of establishments by type of economic activity in which engaged. It is a classification of establishment, rather than legal entities or enterprises by kinds of business, and not by occupations or commodities. It encompasses all economic activity.

Universe: Total establishments or units covered under the ES-202 Quarterly Report of Employment and Wages.